Appendix C - Plans

C.10 PLANS INTRODUCTION

C.10 – Plans Introduction

The Idaho Transportation Department produces plan sheets for several purposes such as design information, construction bidding documents, historical information, legal records of survey, or departmental records. The following examples are typical of the preparation and organization that is needed to produce a set of plans that is constructable with clarity. Variations to these typical plan sheets require approval by Roadway Design. These examples are in metric and the sheets were created using metric standards. The updated standard plan sheets were created in English units.

Both English and Metric Plans are available electronically through the internet at http://www2.state.id.us/itd/design/cadd/aboutcadd.htm . For assistance/revisions/etc., please contact Warren Hostetler at 334-8494.

11-03

Sheet Version: Use the current blank sheet version found in /usr/standard/metric.

Recommended order of sheets.

Text for Index: tx=1.5 mm, wt=1, ft=2, (upper case vertical).

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	STANDARD DRAWING LIST
4	TOTAL OWNERSHIP MAP/VICINITY MAP
5	PROJECT CLEARANCE SUMMARY
6-7	TYPICAL SECTIONS
8-9	ROADWAY SUMMARY
9	BRIDGE SUMMARY
10	PIPE CULVERT SUMMARY
11-24	PLAN & PROFILE SHEETS
25	SOURCE PLAT
26-28	ILLUMINATION SHEETS
29-32	SIGNALIZATION SHEETS
33-40	DELINEATION SHEETS
41-45	PAVEMENT MARKINGS
46-52	SIGNING SHEETS
53-58	TRAFFIC CONTROL PLAN
59-62	R/W PLANS
1-13	UTILITY PLANS
1-5	STRUCTURE DRAWINGS
1-15	BRIDGE DRAWING NO. 15406
1-13	BRIDGE DRAWING NO. 15421

Extend index as needed.

Drawing Groups: May be numbered separately or independently of the other sets within the set.

IDAHO
TRANSPORTATION DEPARTMENT

PLAN AND PROFILE OF PROPOSED

Route & Project No.: tx=5 mm, wt=3, ft=2, (upper case vertical).

U.S. 2

FEDERAL AID PROJECT NO. STP-5121(044)

Key No. & County: tx=6.5 mm wt=1, ft=7 (upper case vertical).

KEY NO. 4178

BONNER COUNTY

PS&E Date: Month and year of nearest date, tx=3 mm, wt=2, ft=2 (uppercase vertical).

APRIL, 1992

Plan Scales: Scale bars to fit plan & profile if necessary.

SCALES IN METERS

0

HORIZONTAL METERS

VERTICAL METERS

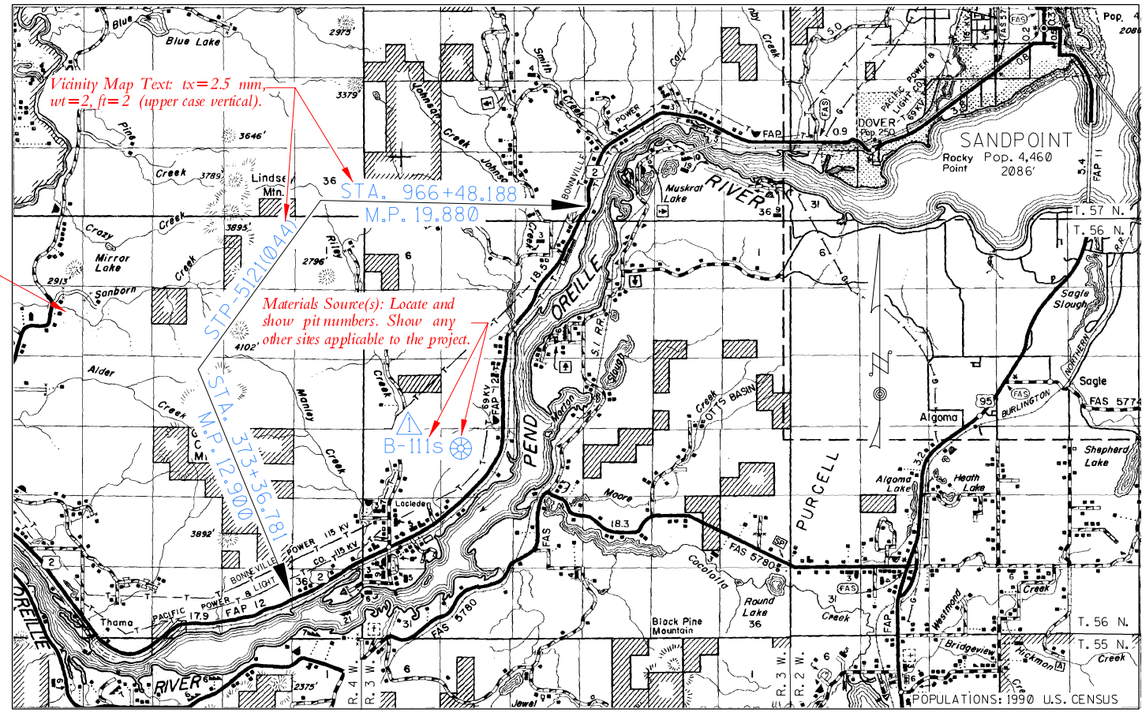
0

Figure C-01
November, 2003

STP-5121(044)
THAMA TO WRENCO LOOP
M.P. 12.900 to M.P. 19.880
SEGMENT CODE 001590

Pertinent Project Information: Project No(s)., location(s), beginning and ending M.P. (milepost), and segment code, tx=2 mm, wt=1, ft=2 (upper case vertical).

Vicinity Map Text: tx=2.5 mm, wt=2, ft=2 (upper case vertical).



Raster Map: Cut raster map approximately 16 by 10 miles and scale map down by 1:0.254 to fit title sheet rectangle. Erase a small area within the margin of any text relating to the project placed on the map. Replace any pertinent text cut away or destroyed during the cutting process such as township and range, north arrow, etc. County maps in raster file format may be obtained from ITD Mapping.

Materials Source(s): Locate and show pit numbers. Show any other sites applicable to the project.

Design designation information: Fill in data values supplied by ITD TP&P, tx=2 mm, wt=1, ft=2 (upper case vertical).

DESIGN	DESIGNATION
ADT (1991)	9040
ADT (2013)	14020
DHV (1991)	1020
DHV (2013)	1560
D	60/40%
V	100 km/h
TRUCKS:	
ADT (1991)	540
ADT (2013)	840
DHV (1991)	60
DHV (2013)	90

Revisions: This section is to note changes to the sheets after the Engineer has stamped the plans. Changes by ITD Design and CA during preparation for advertisement should be shown in this box on each altered sheet.

CADD File No.: See ITD Design Manual, tx=1.5 mm, wt=1, ft=2 (lower case vertical).

Revision Text: tx=1.5 mm, wt=0, ft=2 (upper case vertical).

Drawing Date: Month and year, tx=1.5 mm, wt=1, ft=2 (upper case vertical).

Organization Responsible for Project Development: ITD District or ITD hdqs. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2 (upper case vertical).

VICINITY MAP SCALES

0 1 2 kilometers

1 ½ 0 1 2 MILES

Federal Aid Projects No.: It may be necessary to show two or more project Nos. when right-of-way and construction are managed under separate Nos. Show construction No. only on the following plan sheets. See ITD Design Manual. tx=2.5 mm, wt=2, ft=2 (upper case vertical).

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

Sheet Reference Text: See ITD Design Manual, tx=2.5 mm, wt=2, ft=2 (upper & lower case vertical).

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	12-91	KGB	CHANGED SOURCE NUMBER
2			
3			
4			
5			
6			

THE DIMENSIONS SHOWN ON THE PLANS SHALL BE ATTAINED WITHIN LIMITS OF PRECISION THAT GOOD CONSTRUCTION PRACTICES WILL PERMIT

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 4178titl.dgn

DRAWING DATE: NOVEMBER, 1991

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO.

STP-512-(043) R/W

STP-5121-(044) CONST.

TITLE SHEET

Project Location(s): Include supplemental information, tx=3 mm, wt=3, ft=2 (upper case vertical).

THAMA TO WRENCO LOOP

ITD "metric" logo on all metric plan sheets.

metric

COUNTY Bonner

KEY NUMBER 4178

SHEET 1 OF 62

STAMP

CADD DWG. C_011103.dgn

Figure C–02
November, 2003

METRIC STANDARD DRAWING LIST JUNE, 2001

DRAWING BY: NUMBER	NAME (additional required materials)	* DATE (last rev.)
☐ A-1(m)	Freeway Grading	6-98
☐ A-2(m)	Rural Principal Arterial Grading	6-98
☐ A-3(m)	Rural Minor Arterial Grading	6-98
■ A-4(m)	Rural Major Collector Grading	6-98
■ A-5(m)	Superelevation	3-00
☐ A-7(m)	Median Crossovers	6-97
☐ A-8(m)	Standard Template	6-98
☐ C-1-A(m)	Urban Concrete Pavement Details	8-98
☐ C-1-B(m)	Doweled Concrete Pavement Details (requires sheets 1 of 2 & 2 of 2)	6-99
☐ C-1-C(m)	Ramp Gore Details	8-98
☐ C-2-A(m)	Rumble Strips for Multi-lane Roadways (requires sheets 1 of 2 & 2 of 2)	9-00
☐ C-2-B(m)	Rumble Strips for Two-way Roadways	9-00
☐ D-1-A(m)	Runoff Drain or Embankment Protector	8-97
■ D-1-B(m)	Runoff Drain or Embankment Protector with Slotted Drain (requires sheets 1 of 2, 2 of 2, D-4-B(m), & D-5(m))	6-98
☐ D-2-A(m)	Culvert Inlet Headwall	11-00
☐ D-3-C(m)	Metal Safety Slope Aprons (requires sheets 1 of 2 & 2 of 2)	11-00
☐ D-4-A(m)	Watertight Coupling Bands for Corrugated Metal Pipes (requires sheets 1 of 2 & 2 of 2)	12-95
■ D-4-B(m)	300 mm Thru 750 mm Slotted Drain	6-98
☐ D-5(m)	Metal Aprons for Pipe Culverts	6-98
☐ D-5-A(m)	Concrete Aprons for Pipe Culverts	7-98
☐ D-6(m)	Precast Concrete Headgate	6-98
■ D-7(m)	Concrete Headwall for Twin Pipe Culverts (requires sheets 1 of 2 & 2 of 2)	3-99
■ D-8(m)	Concrete Headwall for Single Pipe Culvert (requires sheets 1 of 2 & 2 of 2)	4-99
☐ D-9(m)	Concrete Headwall for Arch Pipe Culvert (requires sheets 1 of 2 & 2 of 2)	4-99
☐ D-10(m)	Concrete Headwall for Siphons	6-98
☐ D-12(m)	Conduit Installation for New Roadways & Approaches	2-00
☐ D-13(m)	Conduit Installation for Existing Roadways & Approaches	2-00
☐ E-6-A(m)	Inlets & Catch Basins Types 1, 2, & 3	3-01
■ E-6-B(m)	Inlets & Catch Basins Types 1A, 2A, & 3A	3-01
☐ E-6-C(m)	Inlets & Catch Basins Types 4 & 5	6-01
☐ E-6-D(m)	Catch Basin Type 6	3-01
■ E-6-E(m)	Catch Basin Type 7	3-01
☐ E-6-F(m)	Inlet Type 8	3-01
☐ E-7(m)	Manhole Type A	6-98
☐ E-7-C(m)	Manholes Type C & D (requires E-9(m))	6-98
☐ E-8(m)	Manhole Type B (requires E-9(m))	6-98
☐ E-9(m)	Standard Manhole Frame, Cover, & Concrete Collar	7-98
■ F-1-A(m)	Cattle Guard Type A	7-98
☐ F-1-B(m)	Cattle Guard Type B (requires sheets 1 of 2 & 2 of 2)	6-98
☐ F-2-A(m)	Standard Barbed, Woven, Mesh, Combination Wire Fences, & Fencing Details (requires sheets 1 of 3, 2 of 3, & 3 of 3)	12-00
■ F-2-B(m)	High Tension 8 Wire Fence	9-00
☐ F-2-C(m)	Gates Type 1, 1A, & 2 (refer to F-2-A(m))	8-97
☐ F-2-D(m)	Chain Link Fence Fence Type 4 (requires sheets 1 of 2 & 2 of 2)	1-97
☐ G-1-A-1(m)	Guardrail Slope Treatment Types A & B & Curb/Gutter Installation (requires G-1-A-2(m))	6-01
☐ G-1-A-2(m)	W-Beam Metal Guardrail, Bolting Hardware, Post & Blockout Assembly (requires G-1-A-1(m))	7-00
■ G-1-A-3(m)	Steel Post & Blockout for W-beam & Thrie Beam Guardrail (requires G-1-A-1(m) & G-1-A-2(m))	6-01
■ G-1-B(m)	Guardrail Terminals Type 1 & 1-A (requires sheets 1 of 2, 2 of 2, G-1-A-1(m) & G-1-A-2(m))	1-00
☐ G-1-C-1(m)	Guardrail Terminal Type 2-A, for 1:10 or Flatter Foreslope (requires sheets 1 of 2 & 2 of 2, dwgs. G-1-A-1(m) & G-1-A-2(m))	6-01
☐ G-1-C-2(m)	Guardrail Terminal Type 2-B for Less Than 1:10 to 1:6 Foreslope (requires sheets 1 of 2 & 2 of 2, dwgs. G-1-A-1(m) & G-1-A-2(m))	6-01
☐ G-1-E(m)	Guardrail Terminal Type 3 (requires sheets 1 of 2 & 2 of 2, dwgs. G-1-A-1(m) 2 (m), 3(m), & H-1(m))	6-01
■ G-1-F-1(m)	Guardrail Terminal Type 5 Alternate "A"	1-00
☐ G-1-F-2(m)	Guardrail Terminal Type 5 Alternate "B" (requires G-1-A-1(m) & G-1-A-2(m))	2-00
☐ G-1-G(m)	Guardrail Terminal Type 6 (Bullnose barrier - available soon)	N/A
☐ G-1-H(m)	Guardrail Terminals Type 7 & 8 (requires G-1-A-1(m), & 2(m))	4-99
☐ G-1-J(m)	Guardrail Terminal Types 4-A & 4-B (requires G-1-A-1(m) & 2(m))	10-00
■ G-1-K(m)	Guardrail Terminal Type 9 (requires sheets 1 of 2 & 2 of 2, dwgs. G-1-A-1(m) & 2(m))	6-01
☐ G-1-L(m)	Guardrail Installtion for Minor Structures & Large Culverts (requires G-1-A-1(m) & G-1-A-2(m))	6-01
☐ G-1-M(m)	Guardrail Terminal Type 10 (requires G-1-A-1(m), 2(m), & G-1-B(m))	6-01
☐ G-2-A(m)	Concrete Guardrail & Terminal Type A	2-00
☐ G-2-A-1(m)	6096 mm Concrete Barrier (requires sheets 1 of 2 & 2 of 2)	7-00
■ G-2-C(m)	Concrete Parapet Connector	6-98
■ G-2-D(m)	Concrete to Metal Guardrail Connector (requires G-1-E(m) & G-2-A(m))	7-98
☐ G-2-E(m)	Concrete Guardrail Transition (requires G-2-A(m))	6-98
■ G-2-F(m)	Interim Bridge Rail Retrofit	9-98
☐ G-2-H(m)	Special Cast-in-place Concrete Guardrail (requires G-2-A(m))	3-00
☐ G-3(m)	Delineators	9-98
■ G-4(m)	Snow Poles for Primary & Secondary Highways	11-95
☐ H-1(m)	Curbs, Gutters, Traffic Separators, & Raised Channelization End Treatment	8-98
☐ H-2-A(m)	Urban Approaches & Concrete Sidewalk (requires H-1(m))	9-98
☐ H-2-B(m)	Urban Approaches Handicapped/Bicycle Type A5 & A6 (requires H-2-A(m))	6-01
☐ H-4-A(m)	Rural Approaches (Private, Commercial, & Public) (requires H-4-B(m))	3-00
☐ H-4-B(m)	Mailbox Turnout & Installation	4-99
☐ H-5-A(m)	Mailbox Assemblies Single & Double Mount (refer to H-5-C(m))	5-95

Drawing Check Block: Fill block solid when drawing is used in plans.

* (N/A) METRIC DRAWING IS NOT AVAILABLE

ITD "metric" Logo: Required on all metric sheets.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	8-96	VPP	ADDED DWG I-10-B TO PLAN LIST
2			
3			
4			
5			
6			

DESIGNED F. Krugger	SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT
DESIGN CHECKED V.P. Price		
DETAILED R. Sterling	CADD FILE NAME 4178list.dgn	
DRAWING CHECKED S. King	DRAWING DATE: MAY, 1992	DISTRICT 1

PROJECT NO.	STANDARD DRAWING INDEX	
STP - 5121(004)	THAMA TO WRENCO LOOP	metric COUNTY Bonner KEY NUMBER 4178 SHEET 2 OF 62

CADD DWG. C_021103.dgn

Figure C–03
November, 2003

METRIC STANDARD DRAWING LIST CON T., JUNE, 2001

DRAWING BY:

	NUMBER	NAME (additional required materials)	* DATE (last rev.)
☐	H-5-B(m)	Mailbox Assemblies Multiple Mount (refer to H-5-C(m))	5-95
☐	H-5-C(m)	Mailbox Hardware	5-95
☐	I-1-A(m)	Traffic Control Methods for Lane Closure	8-96
☐	I-2-A(m)	Right-of-Way/Reference Markers & Witness Posts	7-98
☐	I-2-B(m)	Street Monument	1-97
☐	I-5(m)	Loop Detectors - 3 m/sec^2 Deceleration Rate	3-96
☐	I-6-A(m)	Mast Arm Traffic Signal Poles (requires I-7-C(m))	8-96
☐	I-6-B(m)	Pedestal Traffic Signal Poles (requires I-7-C(m))	8-96
☐	I-7-A(m)	Foundation Details for Signal Cabinets	7-98
☐	I-7-B(m)	Electronic Cabinet Foundation Detail	7-98
■	I-7-C(m)	Mastarm Signal Pole, Lighting Pole and Pedestrian Pole Foundation Details	7-98
☐	I-8-A-1(m)	Breakaway Sign Post Installation Type A-1 (requires I-8-A-2(m))	12-99
☐	I-8-A-2(m)	Breakaway Sign Post Installation Type A-1 (requires I-8-A-1(m))	12-99
☐	I-8-B-1(m)	Breakaway Sign Post Installation Type A-2, A-3, & A-4 (requires I-8-B-2(m))	12-99
■	I-8-B-2(m)	Breakaway Sign Post Installation Type A-2, A-3, A-4 (requires I-8-B-1(m))	12-99
☐	I-8-C-1(m)	Breakaway Sign Post Installation Type A-8 & A-9 (requires I-8-C-2(m))	12-99
☐	I-8-C-2(m)	Breakaway Sign Post Installation Type A-8 & A-9 (requires I-8-C-1(m))	12-99
☐	I-8-D-1(m)	Breakaway Sign Post Installation Type B-1 (requires I-8-D-3(m))	12-99
■	I-8-D-2(m)	Breakaway Sign Post Installation Type B-2, B-3, & B-4 (requires I-8-D-3(m))	12-99
■	I-8-D-3(m)	Breakaway Sign Post Installation Type B-1, B-2, B-3, B-4 (requires I-8-D-1(m) or I-8-D-2(m))	2-98
■	I-8-E(m)	Breakaway Sign Posts Type D	8-96
■	I-8-F(m)	Breakaway Sign Posts Type E	9-99
■	I-9-A-1(m)	B Post and Brace Angle Detail (requires I-9-A-2(m))	8-96
☐	I-9-A-2(m)	B Post and Brace Angle Detail (requires I-9-A-1(m))	2-98
■	I-9-B(m)	Cardinal Route Marker Assemblies (requires I-8-D-2(m) & I-8-D-3(m))	8-96
■	I-9-C(m)	Route Marker Bracket Details	8-96
☐	I-10-A(m)	Extruded Aluminum Signs	8-96
☐	I-10-B(m)	Exit Number Panel Supports (requires I-10-A(m))	8-96
☐	I-11-A(m)	Standard Route Markers (requires I-11-B(m) & I-12-F(m))	8-96
☐	I-11-B(m)	Route Marker Numeral Details (requires I-11-A(m))	8-96
☐	I-11-C(m)	Route Marker Auxiliary Panels (requires I-12-F(m))	8-96
☐	I-12-A(m)	Standard Regulatory Signs (requires I-12-F(m))	7-98
☐	I-12-D(m)	Standard Warning Signs (requires I-12-F(m))	7-98
☐	I-12-F(m)	Punching Schedule for Type "B" or Type "E" Signs	8-96
☐	I-13-A(m)	Standard Guide and Service Signs	8-96
☐	I-20(m)	Mileposts	6-99
☐	I-21(m)	Standard Pavement Markings for Primary and Secondary Roadways	7-98
☐	I-22-A(m)	Standard Pavement Markings Freeways with 6.6 meter Wide Ramps	12-94
☐	I-22-B(m)	Standard Pavement Markings Freeways with 7.8 meter Wide Ramps	12-94
☐	J-1(m)	Concrete Cribbing	(N/A)
☐	J-2(m)	Metal Bin - Type Retaining Walls	(N/A)
☐	J-3(m)	Date Panel	(N/A)
☐	K-1-A(m)	Wood Arbor	8-95
☐	K-1-D(m)	Brick Arbor	11-95
☐	K-7(m)	Methods of Planting Trees and Shrubs	9-94
☐	K-10(m)	Rest Area & Roadside Facilities Symbols	12-94
☐	P-1-A(m)	Temporary Erosion Control Slope Drains (requires P-1-D(m))	7-98
☐	P-1-B(m)	Temporary Erosion Control Erosion Dams, Barriers, & Filter Fence Devices (requires P-1-D(m))	7-98
☐	P-1-C(m)	Temporary Erosion Control Sediment Trap (requires P-1-D(m))	7-98
☐	P-1-D(m)	Temporary Erosion Control Diversion Devices & Site Example	1-99
☐	P-1-E(m)	Temporary Erosion Control Earth Berms/Dikes & Swales (requires P-1-D(m))	8-98
☐	P-1-F(m)	Temporary Erosion Control for Temporary Roads (requires P-1-D(m))	2-96
☐	P-1-G(m)	Temporary Erosion Control Siltation Berm & Stabilized Construction Entrance (requires P-1-D(m))	7-98
☐	P-1-H(m)	Temporary Erosion Control Inlet & Basin Protection (requires sheets 1 of 2, 2 of 2, & P-1-D(m))	6-96
☐	P-2-A(m)	Permanent Erosion Control Gabions & Revet Mattresses	7-98
☐	P-2-B(m)	Permanent Erosion Control Stone Filter Weirs/Berms/Dams (requires P-2-A(m))	7-98
☐	P-2-C(m)	Permanent Erosion Control Slope & Channel Protection (requires P-2-A(m))	7-98
☐	P-2-D(m)	Permanent Erosion Control Paved Flume (requires sheets 1 of 2, 2 of 2, & P-2-A(m))	1-99
☐	P-2-E(m)	Permanent Erosion Control Roadside Slope Treatment (requires P-2-A(m))	8-98
■	P-2-F(m)	Permanent Erosion Control Culvert Outlet Protection (requires P-2-A(m))	4-99
☐	P-3-A(m)	Water Pollution Control Sediment Control Catch Basin	8-98
■	P-3-B(m)	Water Pollution Control Sediment & Oil Trap (requires E-9(m))	8-98
☐	P-3-D(m)	Water Pollution Control In Street Sediment & Oil Trap (requires E-7-C(m) & refer to E-9(m))	12-95
☐	P-3-E(m)	Water Pollution Control Equipment Washdown	9-98
☐	P-4-A(m)	Sediment Control Sediment Basin	9-98
☐	P-4-B(m)	Sediment Control Grassed Swale & Wattling (requires P-4-A(m))	9-98
☐	P-5-A(m)	Hazardous Materials Containment Petroleum Storage (refer to P-1-G(m))	9-98
☐	R-12-A(m)	Railroad - Highway Crossing Signals (refer to G-1-J(m) & G-1-A-1(m))	11-95
☐	S-1-A(m)	Celled Standard Conventional Symbols (requires sheets 1 of 2 & 2 of 2)	1-99
☐	S-1-B(m)	Non-Celled Standard Conventional Symbols	1-99
☐	S-1-C(m)	Custom Line Styles (requires sheets 1 of 2 & 2 of 2)	12-98
☐	T-1-A(m)	Underground Fuel System Installation & Details (requires T-1-B(m) & C(m))	(N/A)
☐	T-1-B(m)	Underground Fuel Tank Installation & Details (requires sheets 1 of 2 & 2 of 2 - requires T-1-A(m) & C(m))	(N/A)
☐	T-1-C(m)	Underground Fuel System Electrical Plan & Details (requires T-1-A(m) & B(m))	(N/A)

NOTE:
THIS "METRIC STANDARD DRAWING LIST" IS APPLICABLE FOR USE IN IDAHO TRANSPORTATION DEPARTMENT (ITD) PROJECT PLANS ONLY WHEN THE DATE SHOWN ABOVE IN THE TITLE IS THE SAME AS THE DATE SHOWN ON THE "METRIC STANDARD DRAWING INDEX" TITLE OF THE ITD METRIC ITD STANDARD DRAWINGS MANUAL.

NOTES

1. *This drawing is for an example only and the information contained concerning standard drawing sheets may not be accurate. The most current publication of the STANDARD DRAWING LIST is located in CADD directory /usr/standard. The file name will be sdlm(date: mo/yr).sht. The list will be updated by ITD Design with each standard drawing publication.*
2. *The Standard Drawing List shall immediately succeed the title sheet.*
3. *The STANDARD DRAWING LIST title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.*
4. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

* (N/A) METRIC DRAWING IS NOT AVAILABLE

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	8-96	VPP	ADDED DWG I-10-B TO PLAN LIST
2			
3			
4			
5			
6			

DESIGNED E. Krugger
DESIGN CHECKED V.P. Price
DETAILED E. Krugger
DRAWING CHECKED S. King

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY
CADD FILE NAME 4178ist.dgn
DRAWING DATE: NOVEMBER, 1992

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 1

PROJECT NO. STP - 5121(004)

STANDARD DRAWING INDEX THAMA TO WRENCO LOOP

metric
COUNTY Bonner
KEY NUMBER 4178
SHEET 3 OF 62

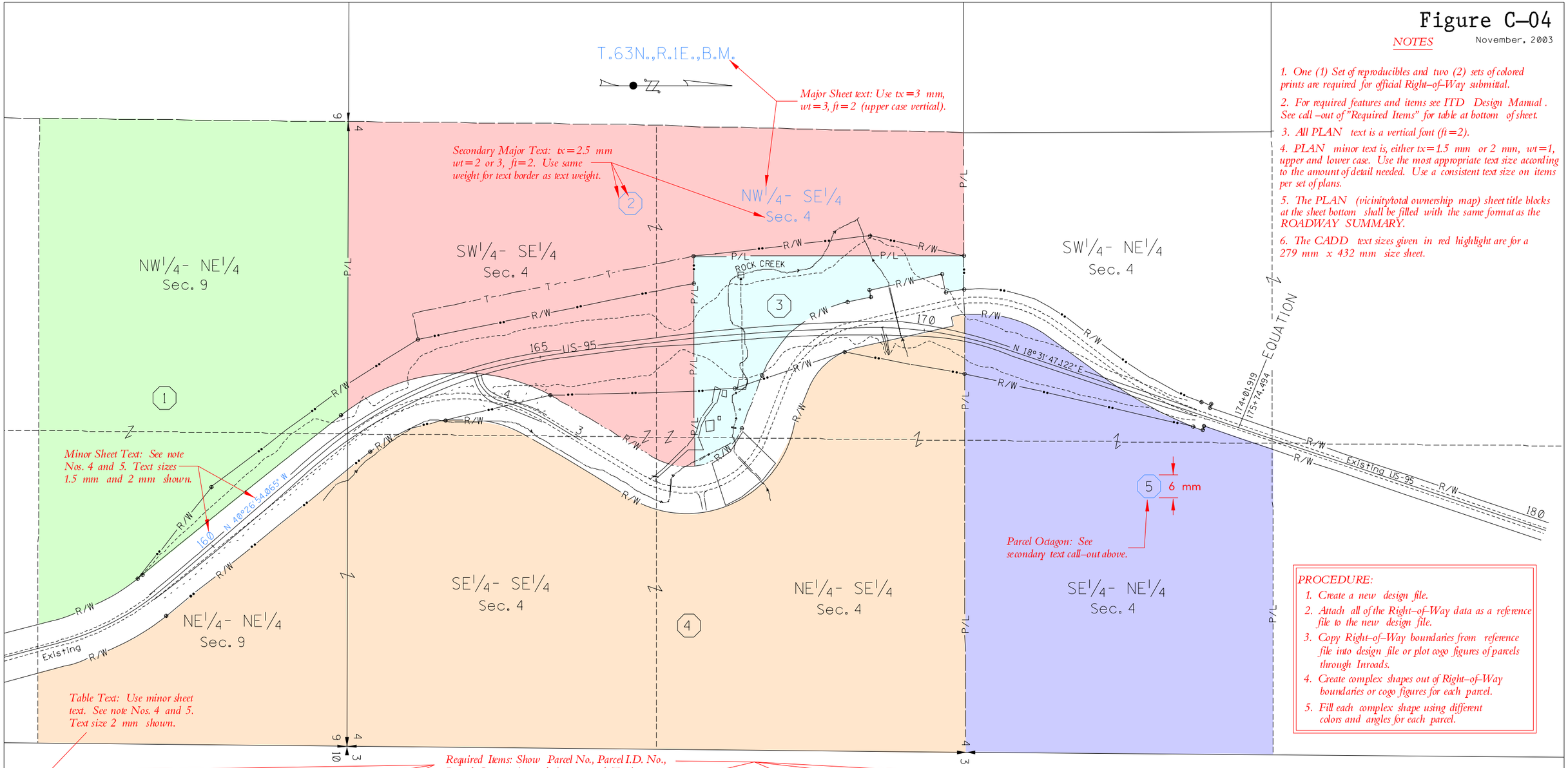
CADD DWG. C_031103.dgn

Figure C–04

November, 2003

NOTES

1. *One (1) Set of reproducibles and two (2) sets of colored prints are required for official Right–of–Way submittal.*
2. *For required features and items see ITD Design Manual. See call–out of "Required Items" for table at bottom of sheet.*
3. *All PLAN text is a vertical font (ft=2).*
4. *PLAN minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.*
5. *The PLAN (vicinity/total ownership map) sheet title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.*
6. *The CADD text sizes given in red highlight are for a 279 mm x 432 mm size sheet.*



Required Items: Show Parcel No., Parcel I.D. No., Record Owner, Assessed Acreages and Totals.

Parcel No.	Parcel I.D. No.	Record Owner	Total Ownership Assessed ha/Ac.		Right of Way Req'd. ha/Ac.		Right of Way Exist. ha/Ac.		Remainder Left ha/Ac.		Remainder Right ha/Ac.		Easement Perm. ha/Ac.		Easement Temp. ha/Ac.		Right of Entry ha/Ac.	
1	36354	Carl Riebli	64.752 ha	160.00 Ac.	0.870 ha	2.15 Ac.	N/A	N/A	63.882 ha	157.85 Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.
2	36355	Zane C. Stratmeyer	24.687 ha	61.00 Ac.	5.362 ha	13.25 Ac.	N/A	N/A	19.324 ha	47.75 Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	1.287 ha	3.18 Ac.	-0- ha	-0- Ac.
3	36356	James R. Billington	3.727 ha	9.21 Ac.	3.727 ha	9.21 Ac.	N/A	N/A	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.
4	36357	Phil & Max Schnuerle	65.865 ha	162.75 Ac.	0.526 ha	1.30 Ac.	N/A	N/A	-0- ha	-0- Ac.	65.339 ha	161.45 Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.
5	36358	Carl Linnemeyer	51.907 ha	128.26 Ac.	1.497 ha	3.65 Ac.	N/A	N/A	-0- ha	-0- Ac.	50.430 ha	124.61 Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.	-0- ha	-0- Ac.

PROCEDURE:

1. *Create a new design file.*
2. *Attach all of the Right–of–Way data as a reference file to the new design file.*
3. *Copy Right–of–Way boundaries from reference file into design file or plot cogo figures of parcels through Inroads.*
4. *Create complex shapes out of Right–of–Way boundaries or cogo figures for each parcel.*
5. *Fill each complex shape using different colors and angles for each parcel.*

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED: Tom Jones
DESIGN CHECKED: John Smith
DETAILED: Nate Brock
DRAWING CHECKED: Don Green

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 4631vto.dgn
DRAWING DATE: MAY 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO.: IR-5110(100)

VICINITY/TOTAL OWNERSHIP MAP: ROCK CREEK

metric

COUNTY: Boundary
KEY NUMBER: 4361
SHEET 3 OF 25

CADD DWG. C_041103.dgn

ITD-1753 11-03

CLEARANCES

	CLEARED UNDER PROJECT NO.	APPROVAL DATE	EXPIRATION DATE
PROJECT STANDARDS			
CONCEPT APPROVAL ■ AASHTO ☐ 3R ☐ STATE	IR-F-3115(38)	4-13-81	
DESIGN EXCEPTIONS: AASHTO roadway width Of 13.2 m - ITD Policy A-14-02,	IR-F-3115(38)	4-13-81	
recommends 10.2 m	N/A		
	N/A		
	N/A		
HEARING WAIVER	N/A		
HEARING DATE (Date held or scheduled for opportunity) DESIGN	IR-F-3115(38)	3-4-84	
HEARING DATE (Date held or scheduled for opportunity)	N/A		
DESIGN OR COMB. LOC. & DES. APPROVAL	IR-F-3115(38)	5-1-85	
ENVIRONMENTAL DOCUMENT: TYPE Final Environmental Impact Statement	IR-F-3115(38)	2-2-85	
ENVIRONMENTAL RE-EVALUATION	IR-F-3115(38)	5-10-88	
MITIGATION MEASURES VERIFIED	IR-F-3115(38)	6-10-86	
EROSION AND SEDIMENT CONTROL PLAN (N/A Only if NPDES SWPP Plan Required)	IR-F-3115(38)	6-12-80	
ARCHEOLOGICAL: SOURCE NO Commercial	N/A		
WATER RESOURCES PERMIT NO(S)	N/A		
ARMY CORPS OF ENGINEERS 404 PERMIT NO(S)	N/A		
RECLAMATION PLAN APPROVAL NO(S) 94-S-3119	IR-F-3115(38)	2-14-86	7-30-89
AIRPORT	N/A		
R/W CERTIFICATE: Issued by (check one) ■ HQ ☐ DISTRICT	N/A		
TRIBAL LANDS: ☐ AGREEMENT REQUIRED ☐ SPECIAL PROVISIONS FOR CONTRACT PROPOSAL	N/A		
AGREEMENTS: (List Appropriate Name)			
CITY ST. Anthony	IR-F-3115(38)	7-3-87	
COUNTY Fremont	IR-F-3115(38)	5-17-87	
HIGHWAY DISTRICT Warm River	IR-F-3115(38)	+	
ROAD CLOSURE AND MAINTENANCE	IR-F-3115(38)	+	
STATE/LOCAL CONSTRUCTION	N/A		
IRRIGATION DISTRICT(S): Crossing Agreement Required Yes ■ No ☐ Island Irrigation District	IR-F-3115(38)	3-29-87	
*UTILITIES: List all Utilities on the project			
Co. Continental Divide Communications	N/A	•	
Co. Montana Power & Light	N/A	•	
Co. Yellowstone Gas	IR-F-3115(38)	• N/A	
Co.	IR-F-3115(38)	• 7-21-88	
RAILROAD Co.	IR-F-3115(38)	• N/A	
Co.	IR-F-3115(38)	• N/A	
OTHER:	N/A		
	N/A		
	N/A		
BRIDGE PS & E	N/A		

NPDES PERMIT REQUIRED

GENERAL ☐ YES ■ NO

INDIVIDUAL ☐ YES ■ NO

STORM WATER POLLUTION PREVENTION PLAN REQUIRED ☐ YES ■ NO

• Dates of agreements prepared by Utilities Engineer ONLY (To be entered by Roadway Design).

+ LPA PROJECTS - Date entered by Roadway Design when project sent to C.A.

All work on this Project shall be governed by the latest Edition of the IDAHO STANDARD SPECIFICATIONS for HIGHWAY CONSTRUCTION, the SUPPLEMENTAL SPECIFICATIONS and the SPECIAL PROVISIONS.

Placed Text: tx=2 mm, wt=1, ft=2, (upper and lower case vertical).

Placed Text: Avoid abbreviations

R/W Certificate: Fill one Block

Expiration Dates: All shall be listed.

Irrigation District: If the Irrigation District requires an agreement and is under the Bureau of Reclamation, an agreement with the Bureau must also be obtained. Signatures are required on either the Structure Drawings or Bridge Sheets.

First column: All items must be addressed, enter Proj. # or N/A (but not both) when no action is required.

ALL ITEMS THIS COLUMN: ENTER N/A WHEN NO ACTION IS REQUIRED.

ACCESS CONTROL DETERMINATION

FROM FORM ITD-606 (SUBMITTED FOR CHANGE ONLY)

Figure C-05

November, 2003

Approved by Assistant Chief Engineer (Dev.): _____ Date

All Fill In Text: tx=2 mm, wt=1, ft=2, (upper and lower case vertical).

PROJECT NO. | LOCATION | TYPE OF CONTROL

DESCRIPTION OF CONTROL TYPE:

Any change or deviation from the existing access control will require an ITD-606 to be submitted and approved.

NOTES

Class A and C Compaction are Specified. Stations of Class C Compaction are 55+10 to 69+50.

ESTIMATING BASIS

Tack and Prime:
CSS-1 for Tack at 0.25 L/m².
MC-250 for Prime at 1.35 L/m².
Blotter Material at 5 kg/m².

Paving:
AC-10 for Plant Mix at 6.0% by Weight of Aggregate and 0.5% Anti-Strip Additive by Weight of Asphalt.
Class II Plant Mix Pavement, Lab No. 87-A0612.

Aggregate:
Size, Est. Aggregate Compacted Mass per cubic meter.
19 mm Aggregate at 2260 kg/m³ for Base Including 7.0% Water, Lab No. 217186.
19 mm Aggregate for Class II Plant Mix Pavement at 2310 kg/m³ Including Asphalt and Additive, Lab No. 219650.
Cover Coat Material, Class 4 at 1600 kg/m³

Seal:
CRS-2R Emulsified Asphalt at 1.15 L/m²
Cover Coat Material, Class 4 at 11 kg/m²
Rejects for Maintenance at 0.3 kg/m²
Blotter and Rejects at 5 kg/m².

Base, Prime, Plant Mix, Etc., Quantities have been Increased to Construct Gores, Islands and Radii, and Approaches.

Notes & Estimating Basis: Information obtained from an approved materials report.

Organization Responsible for Project Development: Consultant, ITD District, or ITD Hdqs. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2, (upper case vertical).

The text sizes given in red highlight are for a 279 mm x 432 mm sheet.

ITD "metric" logo on all metric plan sheets.

Sheet Reference Text: See ITD Design Manual, tx=2.5 mm, wt=2, ft=2 (upper & lower case vertical).

Drawing File Name: See ITD Design Manual – 14-803.02.3, tx=1.5 mm, wt=1, ft=2, (lower case vertical).

Federal Aid Projects No.: tx=2.5 mm, wt=2, ft=2 (upper case vertical).

Drawing Date: Month/Year, date format shall be consistent throughout plans, tx=1.5 mm, wt=1, ft=1 or 2, (upper case vertical).

Project Location(s): Include supplemental information, tx=3 mm, wt=3, ft=2 (upper case vertical).

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS NO.	DATE	BY	DESCRIPTION
△			
△			
△			
△			
△			
△			

Drawing Revisions: To be filled in by C.A. or Design

Drawing Names: should be shown, tx=1.5 mm, wt=1, ft=1 or 2, (upper and lower case vertical)

DESIGNED	D. E. Signor
DESIGN CHECKED	C. H. Eckor
DETAILED	E. Z. Drawe
DRAWING CHECKED	Mark Redpen

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 3765pcsm.dgn

DRAWING DATE: JUNE, 1992

IDAHO TRANSPORTATION DEPARTMENT

SMITH & WESSON

PROJECT NO.: IM-IR-F-3115(38)

PROJECT CLEARANCE SUMMARY: MONTANA LINE TO SENCO RD.

metric

COUNTY: Malad

KEY NUMBER: 3765

SHEET 4 OF 57

CADD DWG. C_051103.dgn

ITD 1766 12-98

Figure C–06

November, 2003

Major Titles: tx=3 mm, wt=3, ft=1, (upper case vertical). Underline same weight as text when used.

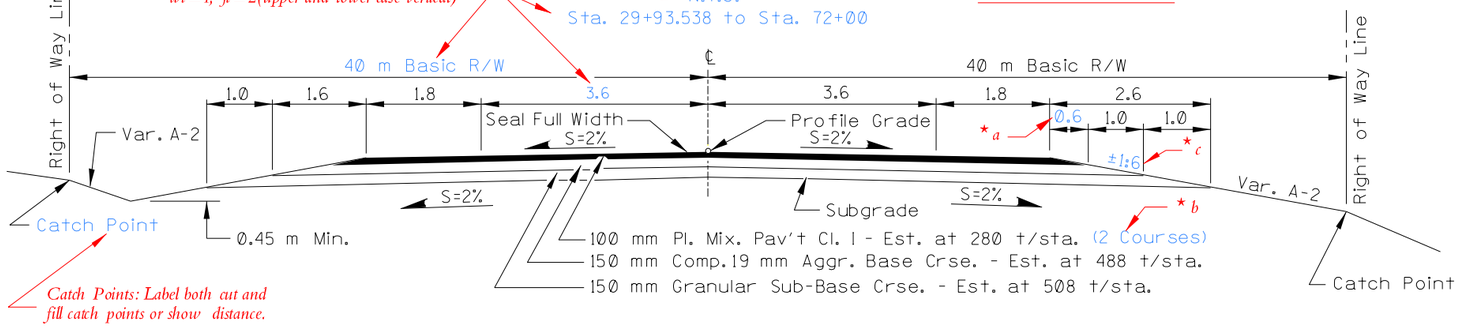
TYPICAL SECTION

N.T.S.

Sta. 29+93.538 to Sta. 72+00

Station & Dimension Text: tx=2 mm, wt=1, ft=2(upper and lower case vertical)

RURAL TYPICAL



Catch Points: Label both cut and fill catch points or show distance.

**a .45 m for plantmix pavement 60 mm or less thickness. .60 m for plantmix pavement greater than 60 mm thick.*

**b Two or more courses required for pavement thickness greater than 75 mm unless otherwise specified in the approved Joint Phase 3 Materials Report.*

**c Subgrade shoulder slopes flatter than 6:1 may be specified.*

NOTES

1. *Draw typicals large enough to be legible on 279 mm x 432 mm plans.*
2. *PROJECT NOTES and ESTIMATING BASIS may be placed on this sheet if not shown on the PROJECT CLEARANCE SUMMARY.*
3. *Dimension all lanes, total roadway width, and right–of–way width both directions from centerline. Dimension sidewalks, curb and gutters, and other features from the preceding features.*
4. *Roadway materials, ballast requirements, and special drainage features are to be as determined by materials report.*
5. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

TYPICAL SECTION

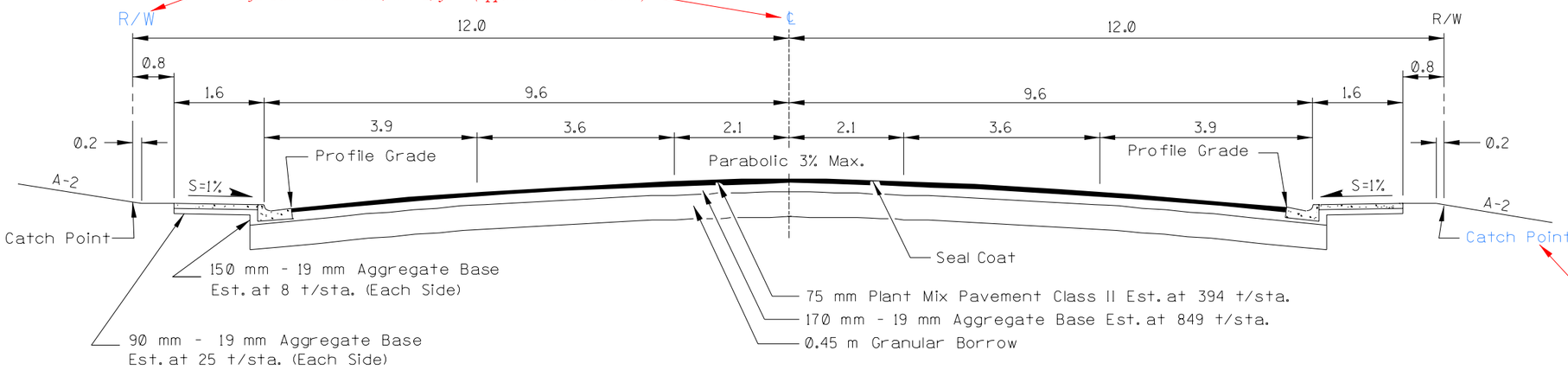
N.T.S.

Transition Sta. 72+00 to Sta. 74+00

Sta. 74+00 to Sta. 78+35.754

URBAN TYPICAL

Major Text: tx=2.5 mm, wt=2, ft=1 (upper and lower case vertical)



Catch Points: Label both cut and fill catch points or show distance.

Drawing Names: should be shown, tx=1.5 mm, wt=1, ft=1 or 2, (upper and lower case vertical)

Drawing Revisions: To be filled in by C.A. or Design

Drawing Date: Month/Year, date format shall be consistent throughout plans, tx=1.5 mm, wt=1, ft=1 or 2, (upper case vertical).

Drawing File Name: See ITD Design Manual, tx=1.5 mm, wt=1, ft=2, (lower case vertical).

Organization Responsible for Project Development: Consultant, ITD District, or ITD Hdqs. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2, (upper case vertical).

Federal Aid Projects No.: tx=2.5 mm, wt=2, ft=2 (upper case vertical).

Project Name: Any information particular to this sheet may be placed in this block, tx=3 mm, wt=3, ft=2, (upper case vertical)

ITD "metric" logo on all metric plan sheets.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	TYPICAL SECTION	metric
NO.	DATE	BY	DESCRIPTION	D. Lander			STP-4326(4)	PLUMMER TO ST. MARIES PHASE I	COUNTY Nez Perce
				DESIGN CHECKED T. Smith					KEY NUMBER 9234
				DETAILED D. Parson	CADD FILE NAME 4178typ1.dgn				
				DRAWING CHECKED R. Jones	DRAWING DATE: MARCH, 1989	DISTRICT 1			SHEET 2 OF 18

STAMP

CADD DWG.C_061103.dgn

Figure C–07

November, 2003

Major Titles: tx=3 mm, wt=3, ft=1, (upper case vertical). Underline same weight as text when used.

TYPICAL SECTION

Station & Dimension Text: tx=2 mm, wt=1, ft=2 (upper and lower case vertical)

N.T.S.

Sta. 707+74.560 to Sta. 848+80.700

INTERSTATE TYPICAL

Major Text: tx=2.5 mm, wt=2 ft=2 (upper and lower case vertical)

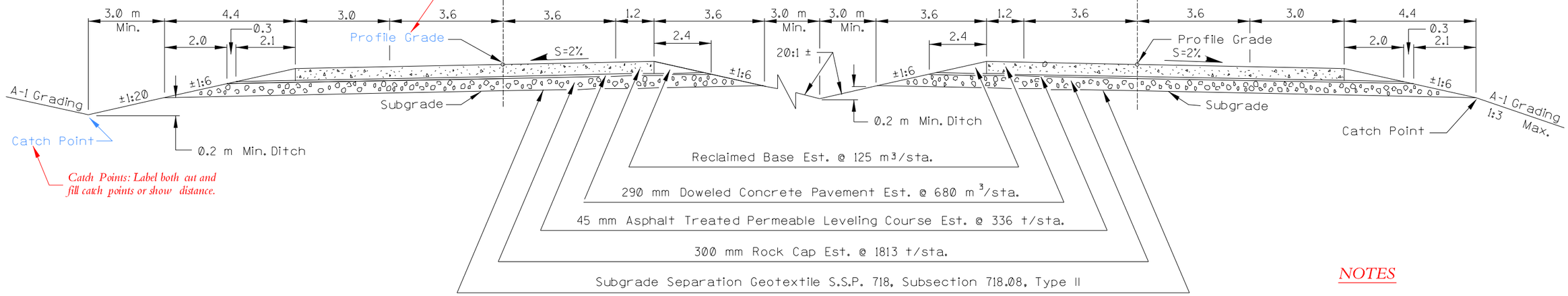
℄ W.B.L.

℄ E.B.L.

707+75 to 796+54.308 (Width 30 m)

796+54.308 to 806+05.800 Bk. (Transition 30 m - 60 m)

799+63.738 Ah. to 848+80.700 (Width 60 m)



Catch Points: Label both cut and fill catch points or show distance.

NOTES

1. *Draw typicals large enough to be legible on 279 mm x 432 mm plans.*
2. *PROJECT NOTES and ESTIMATING BASIS may be placed on this sheet if not shown on the PROJECT CLEARANCE SUMMARY.*
3. *Dimension both directions from E.B.L./W.B.L. centerlines. Dimension right–or–way width, E.B.L centerline. to W.B.L. centerline, median width, and other features as required.*
4. *Roadway materials, ballast requirements, and special drainage features are to be as determined by materials report.*
5. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

Drawing Revisions: To be filled in by C.A. or Design

Drawing Names: should be shown, tx=1.5 mm, wt=1, ft=1 or 2, (upper and lower case vertical)

Drawing Date: Month/Year, date format shall be consistent throughout plans, tx=1.5 mm, wt=1, ft=1 or 2, (upper case vertical).

Drawing File Name: See ITD Design Manual, tx=1.5 mm, wt=1, ft=2, (lower case vertical).

Organization Responsible for Project Development: Consultant, ITD District, or ITD Hdqs. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2, (upper case vertical).

Federal Aid Projects No.: tx=2.5 mm, wt=2, ft=2 (upper case vertical).

Project Name: Any information particular to this sheet may be placed in this block, tx=3 mm, wt=3, ft=2, (upper case vertical)

ITD "metric" logo on all metric plan sheets.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED: J. Vicar

DESIGN CHECKED: T. H. Bishop

DETAILED: D. Parson

DRAWING CHECKED: R. J. Pastor

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 4470typ1.dgn

DRAWING DATE: AUGUST, 1991

IDAHO TRANSPORTATION DEPARTMENT

BOISE, IDAHO

PROJECT NO.: IM-IR-84-2(35)95

TYPICAL SECTION: VIEWPOINT CR. BRIDGE EAST STAGE I

metric

COUNTY: Elmore

KEY NUMBER: 4470

SHEET 5 OF 76

STAMP

CADD DWG. C_071103.dgn

Figure C-08
November 2002

Roadway Name & Stationing: Beginning and ending stationing signifying the construction limits per sheet and pay items contained. The roadway name is optional.

SHEET NUMBER				16	17	18	19	20	21	22	23	24		
STATION - STATION				Still Rd. 13+70 - 18+30	I.S. 382+00- 390+00	I.S. 390+00- 396+60	Ramp A-B 1+22- 3+81.558	Ramp B-C 0+00- 2+45	Ramp D-A 1+25- 3+74.785	Ramp C-D 0+00- 2+75	Frontage Road	Park & Ride		
ITEM NO.	ITEM	UNIT	TOTAL		800 m	660 m								
202-005A	SELECTIVE REMOVAL OF TREES	Each	7								4			
203-005A	REMOVAL OF OBSTRUCTIONS	LS	1											
203-015A	REMOVAL OF BITUMINOUS SURFACE	m2	5250	204	2722	2530	59	55	57	62	211			
203-080A	REMOVAL OF GUARD RAIL	m	1053	352	251	450								
203-075A	REMOVAL OF FENCE	m	3833	345	1370	1286	154	288	106					
205-010A	EXCAVATION SCHEDULE NO. 1	m3	2380	832			125	110	176	128	227	782		
205-015A	EXCAVATION SCHEDULE NO. 2	m3	18423	5583			4458	4553	1135	2690				
205-040A	GRANULAR BORROW	m3	9641											
205-060A	WATER FOR DUST ABATEMENT	m3	3											
205-065A	DUST OIL	L	1710									1710		
209-005A	SMALL DITCH	m	150					150						
213-005A	TOPSOIL	m3	6381	878	1041	1161	646	775	603	660	136	481		
303-020A	19 mm AGGREGATE FOR BASE	†	2311											
401-015A	SS-1 DILUTED EMULSIFIED ASPHALT RS-2 TACK COAT	L	2340											
403-035A	CRS-2 EMULSIFIED ASPHALT FOR SEAL COAT	†	20											
403-055A	REJECTS	†	40											
403-075A	BROOMING	km	5.39											
403-125A	COVER COAT MATERIAL CLASS 4	†	145											
405-025A	PLANT MIX PAVEMENT INCLUDING ASPHALT & ADD. CL. 1	†	2760											
405-240A	MISCELLANEOUS PAVEMENT	m2	934	108	155	139	56	87	8	107				
602-020A	250 MM PIPE CULVERT	m	15				15							
610-030A	FENCE TYPE 3 B 800 MM MESH	m	137				137							
610-035A	FENCE TYPE 4 2400 MM MESH	m	2904	38	1350	1254		262	3	1				
610-250A	BRACES	Each	28		10	8	2							
612-005A	METAL GUARD RAIL	m	385		162	223								
612-065A	METAL TERMINAL SECTION TYPE 3	Each	12	4	3	5								
612-075A	METAL TERMINAL SECTION TYPE 5	Each	12	4	3	5								
615-400A	COMBINATION CURB AND GUTTER TYPE A 2	m	116									116		
616-010A	SIGN TYPE B	m2	241											
616-015A	SIGN TYPE C	m2	493											
616-035A	SIGN BRACKET AND BRACE ANGLE	kg	97											
617-005A	DELINEATOR TYPE 1	Each	60											
617-010A	DELINEATOR TYPE 2	Each	18											
617-020A	DELINEATOR TYPE 4	Each	9											
618-015A	RIGHT-OF-WAY MARKER	Each	18	4	4	4	3		3					
621-005A	SEED BED PREPARATION	ha	5.4											
621-010A	SEEDING	ha	5.4											
621-015A	MULCHING	ha	5.4											
621-025A	MULCH ANCHORING TACK	ha	5.4											

Sheet Columns: Enter pay items on each sheet per column

Construction Length: Use this row to list the length of construction per sheet.

Line Space: Leave to accommodate pay item additions.

Fill-in Text Part #2: tx=2 mm, wt=1, ft=2 (numeric data only). Use center text justification.

Fill-in Text Part #1: tx=2 mm, wt=1, ft=3 (upper case vertical). Use left bottom text justification.

Drawing File Name: See ITD Design Manual, tx=1.5 mm, wt=1, ft=2, (lower case vertical).

Drawing Date: Month/Year, date format shall be consistent throughout plans, tx=1.5 mm, wt=1, ft=1 or 2, (upper case vertical).

Drawing Names: should be shown, tx=1.5 mm, wt=1, ft=1 or 2, (upper and lower case vertical).

Organization Responsible for Project Development: Consultant, ITD District, or ITD Hdqs. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2, (upper case vertical).

Federal Aid Projects No.: tx=2.5 mm, wt=2, ft=2 (upper case vertical).

Project Limits: Place project limits in a prominent place on the sheet. This total must match program length.

Project Limits
1.348 km

Project Location(s): Include supplemental information, tx=3 mm, wt=3, ft=2 (upper case vertical).

Sheet Reference Text: See ITD Design Manual, tx=2.5 mm, wt=2, ft=2 (upper & lower case vertical).

ITD "metric" logo on all metric plan sheets.

NOTES

1. *All non-participating items are grouped and labeled separately for accounting purposes.*
2. *Abbreviate item descriptions and units only as shown on the Bid Item Control File supplied by CA or the bid item cell file found in CADD directory /ust/standard. Item descriptions for special provisions (SP's) do not apply.*
3. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

REVISIONS

NO.	DATE	BY	DESCRIPTION

Drawing Revisions: To be filled in by C.A. or Design

DESIGNED	
DESIGN CHECKED	
DETAILED	C. Ompyle
DRAWING CHECKED	I.M. Sure

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 2168bs01.dgn

DRAWING DATE: DECEMBER, 1991

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 3

PROJECT NO.: IM-84-1(007)48

ROADWAY SUMMARY: BLACK CAT RD. I.C.

metric

COUNTY: Canyon

KEY NUMBER: 2168

SHEET 9 OF 74

STAMP

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

CADD DWG. C_081103.dgn

Figure C-09
November 2003

SHEET NUMBER				Str. No. 15299	Str. No. 15322	Str. No. 15349
STATION - STATION				Walker Canal 1282+46	Big Pine Cr. 1288+17	Ret. Wall 1282+71 To 1287+91
ITEM NO.	ITEM	UNIT	TOTAL			
210-005A	STRUCTURE EXCAVATION SCH. NO. 1	m3	604	288	316	
210-010A	STRUCTURE EXCAVATION SCH. NO. 2	m3	335			335
210-015A	COMPACTING BACKFILL	m3	1175	257	292	626
502-055A	CONC. CLASS 20.5 F	m3	245			245
502-165A	CONCRETE CLASS 27.5 BF SCH. NO.1	m3	436	198	238	
502-310A	CONCRETE CLASS 27.5 AF SCH. NO. 2	m3	1320	606	714	
502-420A	PRESTRESSED STRINGER 1675 MM BEAM	m3	3716.7	1821.4	1895.3	
502-435A	APPROACH SLAB	m2	522	258	264	
503-005A	METAL REINF.	kg	23378			10520
503-010A	METAL REINF. SCH. NO. 1	kg	39072	17760	21312	
503-015A	METAL REINF. SCH. NO. 2	kg	69003	31365	37638	
503-020A	EPOXY COATED METAL REINF.		86872	39487	47385	
504-015A	STRUCTURAL STEEL	kg	2096	453	1143	75
504-025A	STRUCTURAL STEEL HANDRAIL	m	410	152	183	
505-025A	FURNISHING & DRIVING PILE HP 310X79	m	1765	802	963	
505-205A	FURNISH & INSTALL PILE POINT	EACH	132	60	72	
S500-10A	DEWATERING FOUNDATION	CA	1	0.5	0.5	
S501-05A	EXPANSION JOINT	m3	1	0.4	0.6	
S501-10A	PRECAST STRUCTURES	m	20		20	
S501-35A	TEXTURED CONCRETE SURFACE	m2	20	20		
S505-05A	PREDRILLING	m	205	93	112	

Structure Columns: Enter one structure per column

Line Space: Leave to accommodate pay item additions.

Fill-in Text Part #2: tx=2 mm, wt=1, ft=2 (numeric data only). Use center text justification.

Fill-in Text Part #1: tx=2 mm, wt=1, ft=3 (upper case vertical). Use left bottom text justification.

NOTES

1. *District Design or Consultant will prepare bridge summary from data supplied by ITD Bridge Section.*
2. *All non-participating items are grouped and labeled separately for accounting purposes.*
3. *Abbreviate item descriptions and units only as shown on the bid item cell file found in CADD directory /usr/standard. Item descriptions for special provisions (SP's) do not apply.*
4. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

Drawing File Name: See ITD Design Manual, tx=1.5 mm, wt=1, ft=2, (lower case vertical).

Drawing Date: Month/Year, date format shall be consistent throughout plans, tx=1.5 mm, wt=1, ft=1 or 2, (upper case vertical).

Organization Responsible for Project Development: Consultant, ITD District, or ITD Hqds. (Boise, Idaho), tx=2.5 mm, wt=2, ft=2, (upper case vertical).

Federal Aid Projects No.: tx=2.5 mm, wt=2, ft=2 (upper case vertical).

ITD "metric" logo on all metric plan sheets.

Sheet Reference Text: See ITD Design Manual, tx=2.5 mm, wt=2, ft=2 (upper & lower case vertical).

Drawing Revisions: To be filled in by C.A. or Design

Drawing Names: should be shown, tx=1.5 mm, wt=1, ft=1, (upper and lower case vertical)

Project Location(s): Include supplemental information, tx=3 mm, wt=3, ft=2 (upper case vertical).

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	
DESIGN CHECKED	
DETAILED	C. Ompyle
DRAWING CHECKED	I.M. Sure

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME	2168bs01.dgn
DRAWING DATE:	DECEMBER, 1991

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 3

PROJECT NO.

IM-84-1(007)48

BRIDGE SUMMARY

BLACK CAT RD. I.C.

metric

COUNTY	Canyon
KEY NUMBER	2168
SHEET	11 OF 74

STAMP

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

CADD DWG.C_091103.dgn

Figure C-10

November 2003

STATION	PIPE CULVERT (LENGTH IN METERS) PIPE SIZE (MILLIMETERS) 3000 × 2000	300	450	600	900	PLASTIC PIPE: RIBBED POLYETHYLENE (PE) X	CORRUGATED POLYETHYLENE (PE) X	RIBBED POLYVINYL CHLORIDE (PVC) X	METAL PIPE: STEEL PIPE: GALVANIZED STEEL X	ALUMINIZED STEEL X	13mm CORRUGATION DEPTH THICKNESS (mm)	---mm CORRUGATION DEPTH	COATED X	ANNULAR CORR. X	HELICAL CORR. X	ALUMINUM PIPE: 6.5mm TO 13mm CORRUGATION DEPTH THICKNESS (mm)	------ CORRUGATION DEPTH	COATED X	ANNULAR CORR. X	HELICAL CORR. X	CONCRETE PIPE: REINFORCED CLASS II-V	IRRIGATION OR DRAINAGE X	TYPE OF BEDDING 1,2,3	RUBBER GASKET JOINTS REQUIRED X	FILL HEIGHT m	STR. EXC. m³	COMP. BKFILL m³	MINOR STRUCTURES: DRAWING NUMBER	STRUCTURE EA.	CONCRETE m³	METAL REINF. kg	TIMBER m³	GRATES EA.	APRONS EA.	INLETS TYPE_____ EA.	CATCH BASINS TYPE_____ EA.	REMARKS (INDICATE ELONGATION) (WHEN REQUIRED)
144+38	10									X	2.8		X	X				X	X						0.5	14	93										Cross Drain Ext. Rt.
144+38	10									X	2.8		X	X				X	X						0.5	14	93										Cross Drain Ext. Lt.
160+61		15							X		1.6				X	1.5				X	IV		1	X	1	12											Side Drain Lt.
165+45		22							X		1.6				X	1.5				X	IV		1	X	1	7											Side Drain Rt.
168+79		15				X	X		X		1.6				X	1.5				X	III		1		4	19	44								2			Cross Drain
176+85			20			X	X	X	X		1.6				X	1.5				X	III		1		3		14								2			X.D. Skewed 45° Lt.
177+23					22	X	X	X	X		1.6				X	1.5				X	III		1		2	56									2			S.D. Appr. Rt.
181+90		18				X	X	X	X		1.6				X	1.5				X	III		1		3.5	7	8								2			Cross Drain
184+14				18					X		1.6				X	1.5				X	IV		1		2		25								2			X.D. Skewed 45° Rt.
187+25				22		X	X	X	X		1.6				X	1.5				X	III		1	X	5	41								2				X.D., 2-Hdwls. Req'd.
192+42		16				X	X	X	X		1.6				X	1.5				X	III		1		2	1	12								2			Side Drain Lt.
195+87			16						X		1.6				X	1.5				X	IV		1					1							1			S.D. Lt., Str. Req'd.
196+50		22				X	X	X	X		1.6				X	1.5				X	III		1												2			S.D. Appr. Lt.
196+97					20				X		1.6				X	1.5				X	IV		1												2			X.D., Safety Apron
																																					Req'd Lt. & Rt.
201+54		16							X		1.6				X	1.5				X	IV		1															Cross Drain
205+67			21			X	X	X	X		1.6				X	1.5				X	III		1															S.D. Appr. Rt.
208+68		16							X		1.6				X	1.5				X	IV		1												2			Cross Drain
210+31				18		X	X	X	X		1.6				X	1.5				X	III		1												2			Side Drain Rt.
210+90		18				X	X	X	X		1.6				X	1.5				X	III		1												2			Cross Drain
211+65		18				X	X	X	X		1.6				X	1.5				X	III		1												2			Side Drain Lt.
212+95				16					X		1.6				X	1.5				X	IV		1															S.D. Appr. Lt.
215+50		16				X	X	X	X		1.6				X	1.5				X	III		1												2			Side Drain Rt.
218+74		18				X	X	X	X		1.6				X	1.5				X	III		1		1.0	5	7								2			Cross Drain
SHEET TOTAL	20	210	57	74	42																					211	355						2	29			
PROJ. TOTAL	20	344	106	146	64																					453	795						9	64		4	

Sheet Fill In Text: tx=2.5 mm, wt=1, ft=2 (upper and lower case vertical). Use center text justification except for "Remarks" Column.

Remarks Column: Indicate side drain (rt./lt.) or cross drain (w/skew angle), use of safety apron, if minor structure is required, and unique features of pipe culvert. Use abbreviations as needed, tx=2.5 mm, wt=1, ft=1 or 2 (upper and lower case vertical). Use lower left bottom Justification.

Drawing Number: List standard drawing number or structure drawing number.

Sheet & Project Total: See note No. 3, tx=3 mm, wt=2, ft=1 or 2, (upper case vertical).

Fill In Text: Same as the rest of the sheet.

NOTES

1. Plastic pipes shall require aprons or headwalls.
2. An increased thickness of pipe may be specified in place of the coating.
3. If more than one PIPE CULVERT SUMMARY sheet is required to list culverts, show a sheet total on each sheet and on the last sheet show a project total.
4. When safety aprons are required indicate in the "remarks" column for each culvert it applies to.
5. For details on bituminous or polymer coatings and other related details refer to ITD Design Manual.
6. Rubber gaskets are required when a culvert flows (0.75) full for more than one month per year.
7. The pipe culvert station reflects the midpoint of the culvert at the roadway centerline. The skew angle should be indicated in the "remarks" column.
8. The PIPE CULVERT SUMMARY title blocks at the sheet bottom shall be filled with the same format as the the ROADWAY SUMMARY.
9. The text sizes given in red highlight are for a 279 mm x 432 mm sheet.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

DESIGNED L. Bird
DESIGN CHECKED C. Barkley
DETAILED M. Jordan
DRAWING CHECKED M. Johnson

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY
CADD FILE NAME 4178pclv.dgn
DRAWING DATE: MAY, 1992

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 1

PROJECT NO. STP-5121-(044)

PIPE CULVERT SUMMARY
THAMA TO WRENCO LOOP

metric
COUNTY Bonner
KEY NUMBER 4178
SHEET 9 OF 62

CADD DWG.C_101103.dgn

Figure C-11

Novrmber 2003

STATION TO STATION	IRRIGATION PIPE (LENGTH IN METERS) PIPE SIZE (MILLIMETERS) 200	300	375	450	600	1350	PLASTIC PIPE: CORRUGATED POLYETHYLENE (PE) X	RIBBED POLYVINYL CHLORIDE (PVC) X	SOLID WALL POLYVINYL CHLORIDE (PVC) X	SIPHON TYPE METAL PIPE: STEEL 13 mm CORR. DEPTH THICKNESS (mm)	STEEL --- CORR. DEPTH	ALUM. 6.5 mm TO 13 mm CORR. DEPTH	ALUM. --- CORR. DEPTH	CONCRETE PIPE: REINFORCED CLASS II-V	NON REINFORCED CLASS	TYPE OF BEDDING 1,2,3	FILL HEIGHT m	MINOR STRUCTURES: DRAWING NUMBER	STRUCTURE EA.	CONCRETE m^3	METAL REINF. kg	TIMBER m^3	GRATES EA.	REMARKS
196+83					66					1.6				V			1.0	D-5 &	2					1 Apron
196+55				14				X		1.6		1.5		III			2.6	D-5 & 26-3	2					Appr. Lt., 1 Apron
197+10				12						1.6		1.5		III			2.3	26-4	1					Appr. Lt.
197+20			12							1.6		1.5		IV			1.7	26-4	1					1-45° Elbow
199+15			15							1.6		1.5		III			3.6	D-5	1					1 Apron
197+05			3							1.6		1.5		IV			1.5	30-1	1					45° Skew Lt.
201+60			140							1.6		1.5		III				26-4	1					
203+90			12							1.6		1.5		III			4.8	30-1 & 30-2	2					
207+58			224							1.6		1.5						D-5 & 30-2	2					Appr. Lt., 1 Apron
207+58			224							1.6		1.5		III			2.2	30-2 & 31-1	2					
211+60			17							1.6		1.5		III			3.4	32-1 & 32-2	2					
211+60			17							1.6		1.5		III			4.5	34-1	1					
233+23										1.6		1.5		IV			1.9	31-1						
244+30	55									1.6		1.5		III			2.3	37-1 & 37-3	2					
245+90				43				X		1.6		1.5		III			5.7	39-1	1					
304+20		9						X		1.6		1.5		III			2.1	39-1	1					
308+50	244									1.6		1.5		III			3.7	39-1 & 39-2	2					Pressurized
316+00		9								1.6		1.5		III				46-1 & 46-2	2					
						67											1.0	46-2	2					45° Skew Lt.
363+70		14						X		1.6		1.5		IV			6.2	53-1	2					
365+10			11							1.6		1.5		IV			3.8		2					Connect To Exist. Irr. Pipe
383+81			21							1.6		1.5		III			2.7	53-3	2					Connect To Conc. Lined Ditch
457+03										1.6		1.5		IV			1.9							1-120 Elbow Connect To Exist. Siphon
473+20								X		1.6		1.5		III			2.4							Connect To Conc. Lined Ditch, Both Ends
SHEET TOTAL	299	137	696	314	66	67													34					
PROJECT TOTAL	507	434	1819	958	175	67													53					

Drawing Number: List standard drawing number or structure drawing number.

Metal Reinforcement: Round to the nearest kilogram.

Remarks Column: Indicate pipe skew angle, use of minor str(s)., sheet No. (optional), and unique features of irrigation pipe. Use abbreviations as needed, tx = 2 mm, wt = 1, ft = 1 or 2 (upper and lower case vertical). Use lower left bottom justification.

Sheet Fill In Text: tx = 2.5 mm, wt = 1, ft = 2 (Upper and lower case vertical). Use center text justification except for "Remarks" column.

Sheet & Project Total: See note No. 3, tx = 3 mm, wt = 2, ft = 1 or 2, (upper case vertical).

Fill In Text: Same as the rest of the sheet.

NOTES

1. *Plastic pipes require aprons, headwalls, or minor structures as end treatment.*
2. *If more than one IRRIGATION PIPE SUMMARY sheet is required to list pipes, show a sheet total on each sheet and on the last sheet show a project total.*
3. *The irrigation pipe station reflects the midpoint of the pipe at the roadway centerline. The skew angle should be indicated in the "remarks" column.*
4. *The IRRIGATION PIPE SUMMARY title blocks at the sheet bottom shall be fill in the same format as the the ROADWAY SUMMARY.*
5. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

Engineer's Stamp, Signature and Date required on original drawing.

Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

DESIGNED C. Black
DESIGN CHECKED G. Brooks
DETAILED W. Nelson
DRAWING CHECKED G. Sraight

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY
CADD FILE NAME 4178ipsl.dgn
DRAWING DATE: MAY, 1992

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 1

PROJECT NO. STP-5121-(044)

IRRIGATION PIPE SUMMARY
THAMA TO WRENCO LOOP

metric
COUNTY Bonner
KEY NUMBER 4178
SHEET 14 OF 62

CADD DWG.EC_11103.dgn

Figure C–12

November 2003

STATION TO STATION	SEWER PIPE (LENGTH IN METERS) PIPE SIZE (MILLIMETERS) 300	375	450	300					PLASTIC PIPE: CORRUGATED POLYETHYLENE (PE) X	RIBBED POLYVINYL CHLORIDE (PVC) X	SOLID WALL POLYVINYL CHLORIDE (PVC) X	ABS COMPOSITE X	SIPHON TYPE METAL PIPE + COATING IS REQUIRED IF CHECKED: STEEL 13mm CORR. DEPTH (THICKNESS mm)	STEEL --- CORR. DEPTH	ALUM. 6.5mm TO 13mm CORR. DEPTH	ALUM. --- CORR. DEPTH	+ BITUMINOUS OR POLYMER COATING X	CONCRETE PIPE: REINFORCED CLASS II-V	NON-REINFORCED CLASS X	TYPE OF BEDDING 1,2,3	MAN-HOLES: TYPE__A__ EA.	TYPE__B__ EA.	CATCH BASINS: TYPE_____ EA.	TYPE_____ EA.	TYPE_____ EA.	INLETS: TYPE__1__ EA.	TYPE_____ EA.	TYPE_____ EA.	REMARKS
172+19	14												1.6		1.5			I V		1								1			Inlet Req'd. Lt.
172+50	3											X	1.6		1.5			I V		1								1			Inlet Req'd. Rt.
29+28				125									1.6		1.5			I I I		2	1										Manhole Req'd. Rt.
25+99				75									1.6		1.5			I I I		1											
24+61				9						X		X	1.6		1.5				X	1											
173+47												X	1.6		1.5			I I I		1											
174+77			94							X			1.6		1.5			I V		1								1			Inlet Req'd. Rt.
175+00	8												1.6		1.5			I V		1								1			Manhole Req'd. Rt. Inlet Req'd. Lt.
175+06	17												1.6		1.5			I V		1								1			Inlet Req'd. Lt.
176+60		97								X		X	1.6		1.5			I I I		1											
178+19		97											1.6		1.5			I I I		2	1										Manhole Req'd. Rt.
83+85	9												1.6		1.5			I V		1		1						1			Manhole Req'd. Lt. Inlet Req'd. Rt.
182+45	10									X		X	1.6		1.5			I I I		1											
181+94	14												1.6		1.5			I V		1								1			Inlet Req'd. Rt.
182+30	11												1.6		1.5			I V		1		1						1			Manhole Req'd. Rt. Inlet Req'd. Rt.
85+81	92												1.6		1.5			I V		1		1									Manhole Req'd. Lt.
87+04	18												1.6		1.5			I V		1		1						1			Inlet Req'd. Lt.
87+65	21																											1			Inlet Req'd. Rt.
SHEET TOTAL	217	194	94	209																	2	4				10				
PROJECT TOTAL	1255	398	94	443																	5	9				17				

Remarks Column: Indicate manhole(s) required, and unique features of sewer pipe. Use abbreviations as needed, tx = 2 mm, wt = 1, ft = 1 or 2 (upper and lower case vertical). Use lower left bottom justification.

Sheet Fill In Text: tx = 2.5 mm, wt = 1, ft = 2 (Upper and lower case vertical). Use center text justification except for "Remarks" column.

Sheet & Project Total: See note No. 2, tx = 3 mm, wt = 2, ft = 1 or 2, (upper case vertical).

Fill In Text: Same as the rest of the sheet.

NOTES

1. *An increased thickness of pipe may be specified in place of the coating.*
2. *If more than SEWER PIPE SUMMARY sheet is required to list pipes, show a sheet total on each sheet and on the last sheet show a project total.*
3. *The sewer pipe station reflects perpendicular line from the roadway centerline to the midpoint of the pipe.*
4. *The SEWER PIPE SUMMARY title blocks at the sheet bottom shall be fill in the same format as the the ROADWAY SUMMARY.*
5. *For details on bituminous or polymer coatings and other related details refer to ITD Design Manual.*
6. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

DESIGNED R. Limbaugh
DESIGN CHECKED L. King
DETAILED P. Bucanan
DRAWING CHECKED B. Farber

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME 4178spsi.dgn
DRAWING DATE: MAY, 1992

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 1

PROJECT NO. STP-5121-(044)

SEWER PIPE SUMMARY
THAMA TO WRENCO LOOP

metric
COUNTY Bonner
KEY NUMBER 4178
SHEET 21 OF 62

ITD-1755 11-03

Figure C–13

November 2003

STATION	PIPE SIPHONS (LENGTH IN METERS) PIPE SIZE (MILLIMETERS) 300	450	600	GASKETED JOINTS REQUIRED: SIPHON TYPE METAL PIPE STEEL 13 mm CORR. DEPTH	25 mm CORR. DEPTH	ALUM. 6.5 mm TO 13 mm CORR. DEPTH (THICKNESS mm)	CONCRETE PIPE REINFORCED CLASS II-V	TYPE OF BEDDING 1,2,3	STRUCTURE EXC. m^3	COMP. BACKFILL m^3	MINOR STRUCTURES DRAWING NO.	STRUCTURE EA.	CONCRETE m^3	MET. REINF. kg	TIMBER m^3	GRATES EA.	REMARKS
108+10			80	1.6		1.5	V	1	182	156	D-10		3.4	50		2	30° Skew, 2 Hdwls. Req'd.
115+05			80	1.6		1.5	V	1	182	156	D-10		3.4	50		2	63° Skew, 2 Hdwls. Req'd.
155+30			54	1.6		1.5	V	1	126	108	D-10		1.7	25		1	5° Skew, 1 Hdwl. Req'd., Str. Dwg. #14-3
155+85			68	1.6		1.5	V	1	154	132	D-10		1.7	25		1	1 Hdwl. Req'd., Str. Dwg. #21-1
156+15			68	1.6		1.5	V	1	154	132	D-10		1.7	25		1	Connect To Exist. Str., 1 Hdwl. Req'd.
170+15			60	1.6		1.5	V	1	137	117							15° Skew, Str. Dwgs. #22-1 & #22-2
172+95			52	1.6		1.5	V	1	119	102							Str. Dwgs. #25-1 & #26-1
237+25			68	1.6		1.5	V	1	154	132	D-10		1.7	25		1	1 Hdwl. Req'd., Str. Dwg. #37-3
243+50			128				V	1	294	252							55° Skew, Str. Dwg. #39-1, Connect To Exist. siphon, 1 Reducer
276+90			70				V	1	161	138	D-10		1.7	25		1	1 Hdwl. Req'd., Str. Dwg. #43-3
280+20			80	1.6		1.5	V	1	182	156	D-10		1.7	25		1	35° Skew, 1 Hdwl. Req'd., Str. Dwg. #44-1
304+50			76	1.6		1.5	V	1	175	150	D-10		3.4	50		2	2 Hdwls. Req'd.
333+80			70				V	1	161	138							20° Skew, Str. Dwg. #47-1, Connect To Exist. Siphon, 1 Reducer
347+60			68	1.6		1.5	V	1	158	135							10° Skew, Str. Dwg. #49-1, Connect To Exist. Siphon, 1 Reducer
356+80	80						V	1	104	96							30° Skew, Connect To Exist. Siphon
357+20		86					V	1	140	122							35° Skew, Connect To Exist. Siphon
364+45			76	1.6		1.5	V	1	193	165							60° Skew, Str. Dwgs. #63-1 & #53-1
385+40			134	1.6		1.5	V	1	308	264						1	60° Skew, Str. Dwgs. #65-1 & #53-3
387+25			66	1.6		1.5	V	1	151	129						1	Str. Dwgs. #65-1 & #54-1
410+20			100				V	1	231	198	D-10		1.7	25			15° Skew, Connect To Exist. Siphon,
461+75			140	1.6		1.5	V	1	221	189							1 Hdwl. & 1 Reducer Req'd.
																	65° Skew, Str. Dwgs. #72-2 & #75-2
SHEET TOTAL	260	280	5035						185341	3167			22.1	325		14	
PROJECT TOTAL	380	560	6090	42					264252	4354			45.2	574		35	

Drawing Number: List standard drawing number or structure drawing number.

Metal Reinforcement: Round to the nearest kilogram.

REMARKS

Remarks Column: Indicate pipe skew angle, use of headwall(s), sheet No. (optional), and unique features of pipe siphon. Use abbreviations as needed, tx=2 mm, wt=1, ft=1 or 2 (upper and lower case vertical). Use lower left bottom justification.

Sheet Fill In Text: tx=2.5 mm, wt=1, ft=2 (Upper and lower case vertical). Use center text justification except for "Remarks" column.

Fill In Text: Same as the rest of the sheet.

Sheet & Project Total: See note No. 3, tx=3 mm, wt=2, ft=1 or 2, (upper case vertical).

NOTES

1. *An increased thickness of pipe may be specified in place of the coating.*
2. *For details on bituminous or polymer coatings and other related details refer to ITD Design Manual.*
3. *If more than one PIPE SIPHON SUMMARY sheet is required to list pipes, show a sheet total on each sheet and on the last sheet show a project total.*
4. *The pipe siphon station reflects the midpoint of the pipe at the roadway centerline. The skew angle should be indicated in the "remarks" column.*
5. *The PIPE SIPHON SUMMARY title blocks at the sheet bottom shall be filled with the same format as the the ROADWAY SUMMARY.*

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

DESIGNED	W. Goldberg
DESIGN CHECKED	M. Phiefer
DETAILED	H. Ford
DRAWING CHECKED	J. Roberts
SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY	
CADD FILE NAME	4178pssl.dgn
DRAWING DATE:	MAY, 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO. STP-5121-(044)

PIPE SIPHON SUMMARY

THAMA TO WRENCO LOOP

metric

COUNTY Bonner

KEY NUMBER 4178

SHEET 13 OF 62

CADD DWG. C_131103.dgn

Figure C–14

November 2003

STATION TO STATION	PIPE UNDERDRAINS (LENGTH IN METERS) — PIPE SIZE (NOM. DIAM. IN MILLIMETERS)															CORRUGATED POLYETHYLENE (PE) DRAINAGE TUBING	POLYVINYL CHLORIDE (PVC) PIPE	METAL PIPE			SPECIAL BACKFILL	STRUCTURE EXCAVATION	COMPACTING BACKFILL	REMARKS
	125 mm HALF ROUND	150 mm ROUND	200 mm ROUND	250 mm ROUND	300 mm ROUND	375 mm ROUND	450 mm ROUND	525 mm ROUND	600 mm ROUND	675 mm ROUND	750 mm ROUND							STEEL THICKNESS ROUND TYPE OF BEDDING	STEEL THICKNESS HALF ROUND TYPE IIIA	ALUM. THICK. ROUND TYPE OF BEDDING	+ OR m^3	m^3	m^3	
																		1,2,3	X	1,2,3				
111+45		76														X					28	43		Attach To X-Drain Hdwl.
113+05		21														X					8	12		Attach To X-Drain Hdwl.
116+60		15														X					5	8		Connect To Str. Dwg. No. 11-1
117+45		73														X					26	40		Connect To Str. Dwg. No. 11-1
342+18		50														X					18	28		Connect To Str. Dwg. No. 62-2
421+75		76														X					27	43		Connect To Str. Dwg. No. 68-1
SHEET TOTAL		311																			112	174		
PROJECT TOTAL		311																			112	174		

Remarks Column: Indicate structure drawing required, skew angle, and unique features of underdrain pipe. Use abbreviations as needed, tx = 2 mm, wt = 1, ft = 1 or 2 (upper and lower case vertical). Use lower left justification.

Sheet Fill In Text: tx = 2 mm, wt = 1, ft = 2 (Upper and lower case vertical). Use center text justification except for "Remarks" column.

Sheet & Project Total: See note No. 1, tx = 3 mm, wt = 2, ft = 1 or 2, (upper case vertical).

Fill In Text: Same as the rest of the sheet.

NOTES

1. *If more than one PIPE UNDERDRAIN SUMMARY sheet is required to list pipes, show a sheet total on each sheet and on the last sheet show a project total.*
2. *The pipe underdrain station reflects perpendicular line from the roadway centerline to the midpoint of the pipe.*
3. *The PIPE UNDERDRAIN SUMMARY title blocks at the sheet bottom shall be filled with the same format as the the ROADWAY SUMMARY.*
4. *The text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	PIPE UNDERDRAIN SUMMARY	metric
NO.	DATE	BY	DESCRIPTION	T. Harding					COUNTY Bonner
				DESIGN CHECKED N. Karrigan			STP-5121-(044)	THAMA TO WRENCO LOOP	KEY NUMBER 4178
				DETAILED P. Bucanan	CADD FILE NAME 4178pusl.dgn				
				DRAWING CHECKED B. Farber	DRAWING DATE: MAY, 1992	DISTRICT 1			SHEET 15 OF 62

Figure C–15

Major Plan/Profile Text: tx=3 mm, wt=3, ft=2 (upper case vertical).

BEGIN PROJECT IR-F-4113(51) Sta. 52+33 = Sta. 52+33 of F-4113(51) M.P. 71.61 N. 273 649.720 E. 707 649.664

T.9N., R.5W., B.M.

Township and Range: Shall be shown on each sheet, tx=2.5 mm, wt=2 or 3, ft=2 (upper case vertical).

I.S.P.C. GRID NORTH

Sta. 56+08.320 Δ ℄ -0 48' 09.273"

North Arrow: Delta–Alpha corrections may be tabulated by stationing and by property ownership.

Project(s) Stations: Always show sta. to sta. tie with adjoining project, if any, indicating equations in bearings, stationing grade elevations, and adjoining percentage of grade. Use tx=2.5 mm, wt=2 or 3, ft=2 (upper and lower case vertical)

Cv. No. 1
Δ = 42° 21' Lt.
T = 224.676
L = 428.705
R = 600.000
S = 6 %
RL= 60
Z = 20
P.I. N. 273 707.663 E. 707 724.813

Minor Plan/Profile Text: See note No. 2 and 3. Text sizes 1.5 mm and, 2 mm shown.

Public land Lines & Major Entity Boundaries: Show station and angle at intersection of centerline with section lines, county, city, etc. boundary lines.

NE⁴ NW⁴ SEC. 14 — SE⁴ SW⁴ SEC. 11 — NE⁴ SW⁴ SEC. 11 — SW⁴ SE⁴ SEC. 11 — NW⁴ NE⁴ SEC. 14 — NW⁴ SE⁴ SEC. 11

Robert G. Brown (10) — Richard & Marcella Bronson (11) — John D. Smith (16) — Thomas H. & Josephine B. Goss c/o Roger S. Lincoln (17) — Frank H. & Jasmine B. Planter (19) — Paul A. Beckman (20)

Sta. 52+56 Rem. of Obstr. (450 mm x 20 m CMP w/hdwls.) Intersection Woodspur Rd. Sta. 52+64.430

Sta. 52+76 to 52+05 (59.4 m Asphalt Curb and 250 m² Bit.Surf.)

Intersection N.E. 21st Ave. Sta. 52+65.380

BEGIN CONST. Sta. 52+00

Woodspur Rd. — Scotch Pines Rd. — NE. 21st Ave. — Dry Gulch Cr. — U.S. 95

Sta. 53+87 Rem. of Obstr. (450 mm x 18 m CMP)

3 m Irr. Easement (P) — Retain & Protect Irr. Siphon

Retain & Protect Bur. Tel. Cable

Sta. 57+50 @ 44 m Lt. Rem. of Obstr. (Bridge)

+23 @ 43.250 Lt. — +38 @ 58.000 Lt. — +23 @ 70 m Lt. — +38 @ 70 m Lt.

89°55'49" — N0°50'40"E

+30.5 @ 24.000 Lt. Channel Change

Const. Easement (T) for Channel Change

+23 @ 70 m Rt. — +38 @ 70 m Rt.

EQUATION Bk. 57+95 Ah. 58+00 — MATCH LINE STA. 58+40

See Environmental Mitigation Plan

Property line & RW intersections: Show station ties and distance lt. or rt.

Property Ownership: Show RW parcel No. and ownership. Parcel identification Nos. are determined as shown on the RW Plans. RW octagon dimensions shown on Design Manual.

Item List: List fence braces, hactares of seeding and RW monuments in lower corner of plan view.

10 R/W Mon.

Section Subdivision Text: Orient section parcel text perpendicular or along north arrow axis. The smaller quarter text is same as the text fraction size.

The CADD text sizes given in red highlight are for a 279 mm x 432 mm size sheet.

Secondary Major Text: Use tx=2.5 mm, wt=2 or 3, ft=2 (upper and lower case vertical). Make underline or boarder same weight as text.

DELINEATOR TABLE

STATION	TYPE IR LT.	IR RT.	4R LT.	4R RT.
170+34		1	1	
172+30 to 173+10		2	2	
174+60		1	1	
176+10				
177+60				
179+30				
181+45				
184+45				
189+13				
194+20		1	1	

Delineator Table: Table is optional and can be placed on separate sheet or elsewhere in plans.

Note:
All Ty. IR Delineators shall be White.
All Ty. 4R Delineators shall be Yellow.

Bench Marks: Show one or two bench elevations per sheet. B.M.'s for project should be permanent. Preferably located outside of construction the area. Temporary bench marks should be labeled as T.B.M.'s

T.B.M. 649.053

Beginning Grades: Label existing grade at pavement match

BEGIN PROJECT IR-F-4113(51) Sta. 52+33 = Sta. 52+33 of F-4113(51)

Major Plan/Profile Text: tx=3 mm, wt=3, ft=2 (upper case vertical).

Project Station(s) & Number(s): Same as plan example Use tx=2.5 mm, wt=2, ft=2 (upper and lower case vertical).

Bridge Information: Show bridge station, length, width (curb to curb), and bridge drawing No.

+23 - 57+30 - 15 m Conc. Bridge Reqd. 12 m c-c Dwg. No. 15405

16 mm Iron Pin Sta. 57+85, 12 m Rt.

Break Elevation: Place elevation at match line or sheet break.

Match Exist. Pav't. +00 - 50.000 — Exist. Gr. -0.080% — -0.080% (Match Existing Grade) — Tangent Grade +0.93% — Finished Grade at ℄ — Existing Ground Line — Existing Siphon

600 mm Pipe Culv. 648.706 Outlet Inv. 648.288 Inlet Inv.

600 mm Pipe Culv. 648.371 Inlet Inv. 648.209 Outlet Inv.

200 m V.C. — 340 m V.C.

Highwater El. 650.670

Pipe Sizes & Inverts: Pipe sizes are not to scale and inverts may need to be noted on the plan or profile.

Minor Plan/Profile Text: See note No. 2 and 3.

Earthwork Lines: wt=3

300 m³ Exc. — 300 m³ Exc. - 687 'TU' Haul to 78+50

193 m³ Exc. 222 m³ Emb. — 203 m³ Exc. 234 m³ Emb. — 275 m³ Exc. 125 m³ Emb.

Ch. Chg. 115 m³ Exc. 971 m³ Emb. 581 m³ Haul 687 TU Rdwy. 640 m

Major Plan/Profile Text:

Drawing Scale: Metric drawing scales are as setforth in the ITD Metric System Handbook.

Earthwork Items: Must be shown on every sheet when earthwork is to be performed.

52 53 54 55 56 57 58

Pay Item Column: Indude pay item description, quantity, station, and unique description such as skew angle or offset. The order of these descriptions should be consistent per set of plans. Use minor plan text format. Use consistent text size per set of plans. Text size tx=1.5 mm shown.

405-240A	Approach (4) 1 Ea., Sta. 52+64 Lt., W=8.5 m 1 Ea., Sta. 52+66 Lt., W=8.0 m 1 Ea., Sta. 52+82 Rt., W=7.6 m 1 Ea., Sta. 53+00 Lt., W=3.6 m
602-025A	300 mm Pipe Culvert 17 m, Sta. 52+76, 12 m Rt.
602-045A	600 mm Pipe Culvert 33 m, Skew/ 27°, Sta. 52+56 30 m, Sta. 53+87
608-025A	300 mm Apron For Pipe 2 Ea. Sta. 52+76
608-045A	600 mm Apron For Pipe 2 Ea., Sta. 52+56 2 Ea., Sta. 53+87
612-005A	Metal Guardrail 120 m, Sta. 56+03 - 57+23 Rt. 70 m, Sta. 56+53 - 57+23 Lt. 100 m, Sta. 57+38 - 58+38 Lt. 50 m, Sta. 57+38 - 57+88, Rt.
612-065A	Metal Terminal Section Ty. 3 2 Ea., Sta. 57+23 Lt. & Rt 2 Ea., Sta. 57+38 Lt. & Rt.
612-075A	Metal Terminal Section Ty. 5 1 Ea., Sta. 56+00 Rt. 1 Ea., Sta. 56+52 Lt. 1 Ea., Sta. 57+87 Rt. 1 Ea., Sta. 58+38 Lt.
612-160A	Precast Conc. Parapet Conn. 2 Ea., Sta. 57+23 Lt. & Rt. 2 Ea., Sta. 57+38 Lt. & Rt.
S405-10A	Plantmix Patching 18 m² 52+56 16 m² 53+87
S209-05A	Construct Ditch 250m, Sta. 53+84-56+34 Lt.

Pay Item Oval: Oval border is wt=1. Use minor text format, see note Nos. 2 and 3. Text size may differ in the plan view and pay item column, however the text sizes used in each part shall be the same and consistent per set of plans.

Oval Size: One oval size shall be used for both minor text sizes and all pay item numbers.

NOTES

1. General and minor items such as delineators and/or removals need not be shown as a pay items on each sheet, only on the ROADWAY SUMMARY.
2. All PLAN/PROFILE text is a vertical font (ft=2).
3. PLAN and/or PROFILE minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on individual items per set of plans.
4. The PLAN and/or PROFILE title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.

STAMP
Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	4-92	RLK	DESIGN EXCEPT. FOR APPROACH WIDTHS

DESIGNED Ted Harding
DESIGN CHECKED Nate Kerr
DETAILED J. Good
DRAWING CHECKED Sam Echart

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME 3501pp10.dgn
DRAWING DATE: NOVEMBER, 1991

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 3

PROJECT NO. IM-IR-F-4113(51)

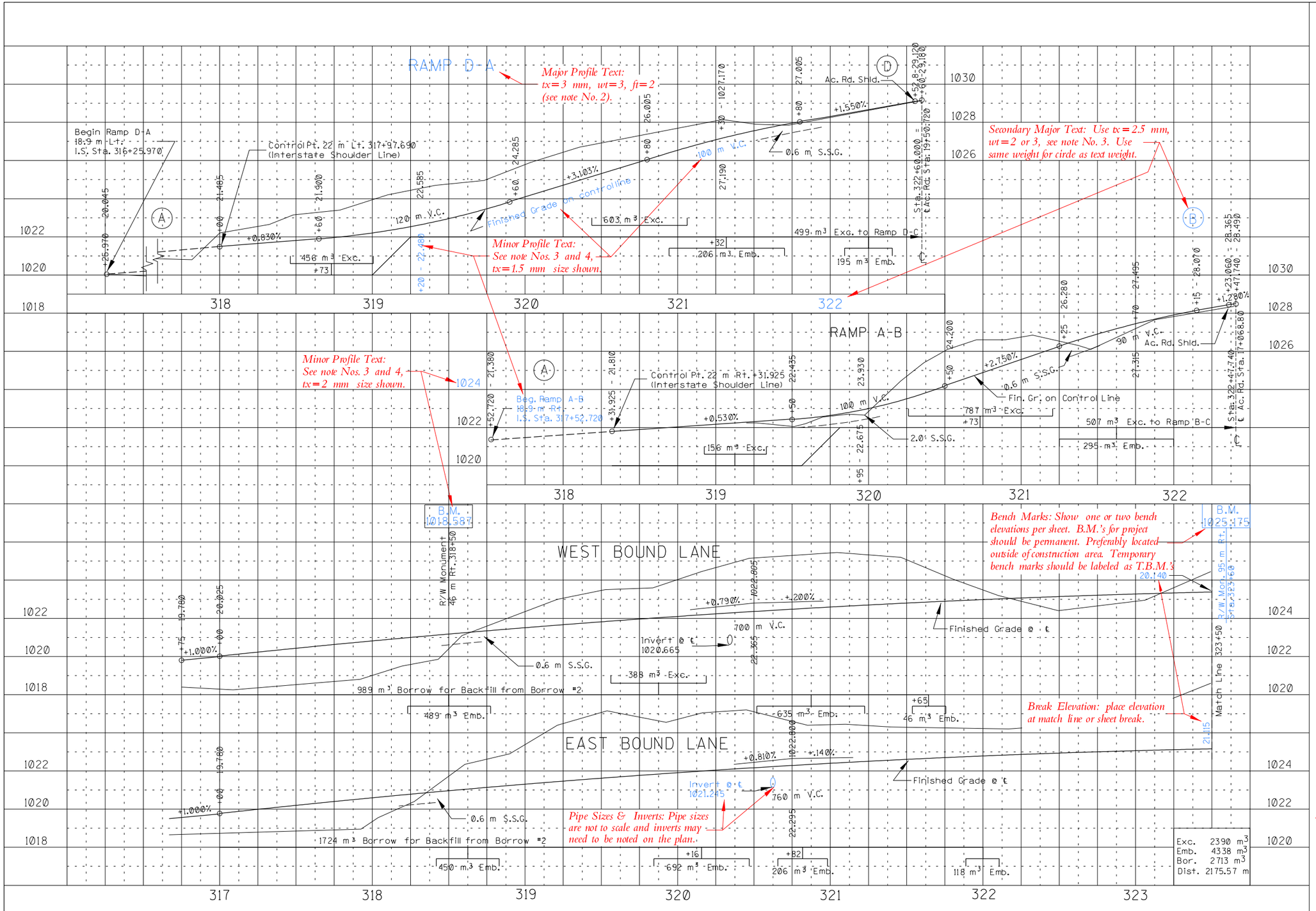
PLAN / PROFILE
US 95
STA. 171+70 TO STA. 195+00

metric
COUNTY Washington
KEY NUMBER 3501
SHEET 10 OF 62

CADD DWG. C_151103.dgn

Figure C–16

November 2003



NOTES

1. For additional profile formatting information refer to Design Manual.
2. All PROFILE text is vertical (ft=2).
3. PROFILE minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.
4. The PROFILE title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.
5. The CADD text sizes given in red highlight are for a 279 mm x 432 mm size sheet.

STAMP

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			

DESIGNED	J. Nickle
DESIGN CHECKED	B. Roberts
DETAILED	K. Cost
DRAWING CHECKED	M. Snowy Jr.

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 1321prf31.dgn

DRAWING DATE: JULY, 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO.: I-90-1(002)50

PROFILE: LAKE SHORE I. C.

metric

COUNTY: Kootenai

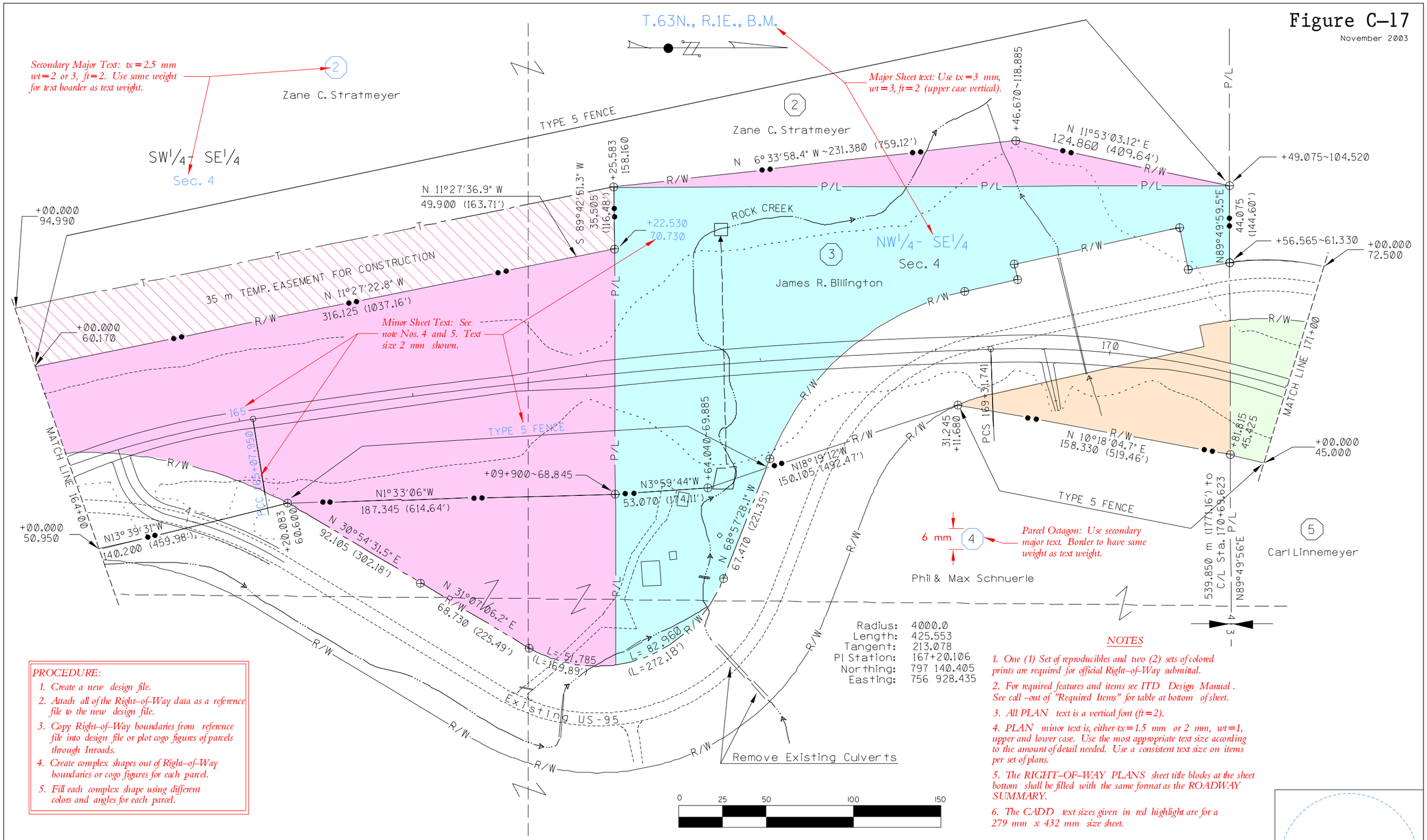
KEY NUMBER: 1321

SHEET 10 OF 22

CADD DWG. C_161103.dgn

Figure C–17

November 2003



Radius:	4000.0
Length:	425.553
Tangent:	213.078
PI Station:	167+20.106
Northing:	797 140.405
Easting:	756 928.435

PROCEDURE:

1. *Create a new design file.*
2. *Attach all of the Right–of–Way data as a reference file to the new design file.*
3. *Copy Right–of–Way boundaries from reference file into design file or plot cogo figures of parcels through Inroads.*
4. *Create complex shapes out of Right–of–Way boundaries or cogo figures for each parcel.*
5. *Fill each complex shape using different colors and angles for each parcel.*

NOTES

1. *One (1) Set of reproducibles and two (2) sets of colored prints are required for official Right–of–Way submittal.*
2. *For required features and items see ITD Design Manual. See call –out of "Required Items" for table at bottom of sheet.*
3. *All PLAN text is a vertical font (ft=2).*
4. *PLAN minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.*
5. *The RIGHT–OF–WAY PLANS sheet title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.*
6. *The CADD text sizes given in red highlight are for a 279 mm x 432 mm size sheet.*

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	Tom Jones
DESIGN CHECKED	John Smith
DETAILED	Nate Brock
DRAWING CHECKED	Don Green

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME	4631row.dgn
DRAWING DATE:	MAY 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO.	RIGHT OF WAY PLANS
IR-5110(100)	ROCK CREEK

metric

COUNTY	Boundary
KEY NUMBER	4361
SHEET	5 OF 6

STAMP

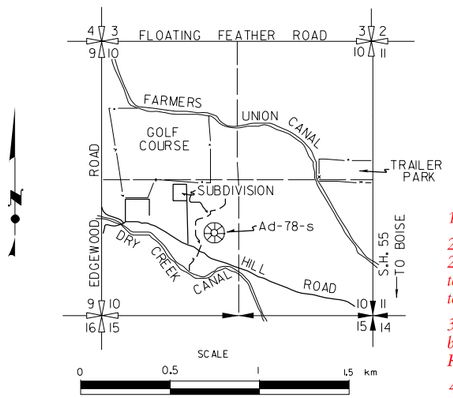
Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

CADD DWG.C_171103.dgn

Figure C-18

November 2003

VICINITY SKETCH

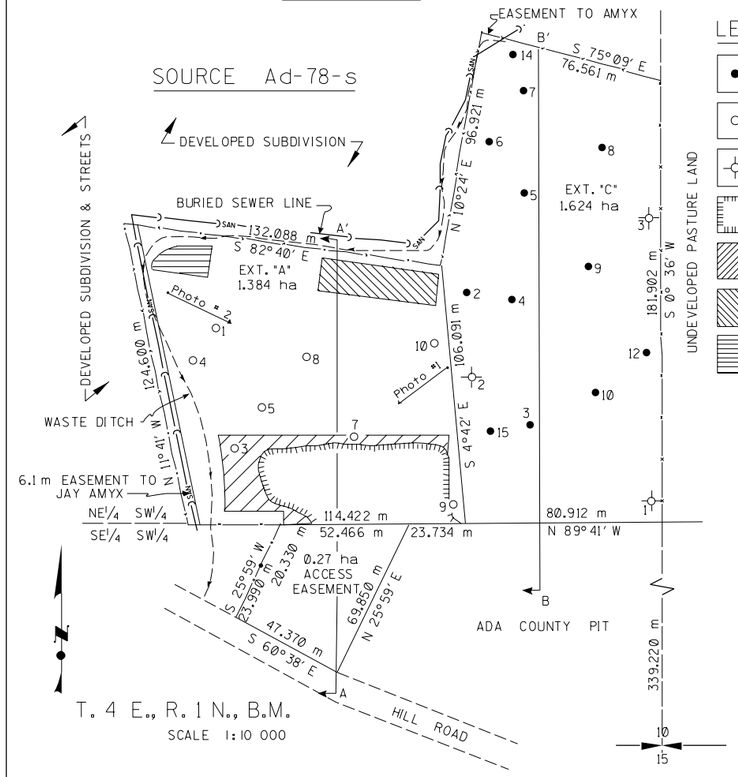


NOTES

1. *All (SOURCE PLAT) text is a vertical font (ft=2).*
2. *SOURCE PLAT minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.*
3. *The SOURCE PLAT sheet title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY*
4. *The CADD text sizes given in red highlight are for a 279 mm x 432 mm size sheet.*

SOURCE MAP

SOURCE Ad-78-s

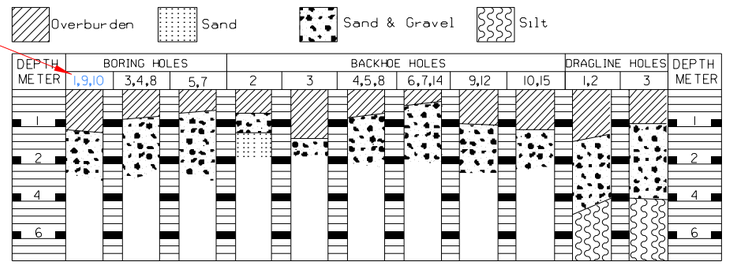


LEGEND:

- BACKHOE HOLES
- BORING HOLES
- DRAGLINE HOLES
- EXISTING EXCAVATION
- AREA TO BE WORKED
- OVERBURDEN PLACEMENT AREA
- TOPSOIL PLACEMENT AREA

Group similar test holes (No more than 0.6 m variation in thickness of layers).

TEST HOLE LOGS



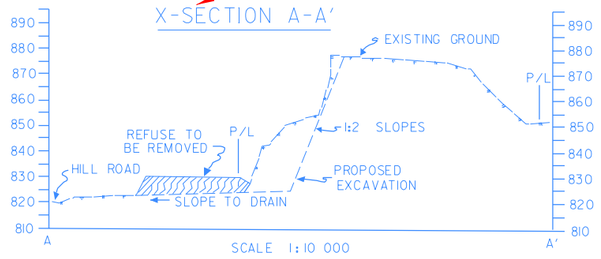
LABORATORY ANALYSIS

PERCENT PASSING / TEST HOLE	BORING HOLES 9	4	3	2	BACKHOE HOLES 12	2	3	9
76.000 mm SQUARE	93	84	92	83	94	93	86	96
50.000 mm SQUARE	78	63	78	70	77	83	73	83
37.500 mm SQUARE								
25.000 mm SQUARE	58	41	59	54	54	67	57	66
19.000 mm SQUARE	49	36	53	49	47	61	50	57
12.500 mm SQUARE	41	31	46	43	39	55	42	46
9.500 mm SQUARE	37	29	43	39	35	52	38	41
4.750 mm SIEVE	30	25	39	32	28	46	28	32
2.360 mm SIEVE	26	23	38	27	25	42	23	28
2.000 mm SIEVE								
1.180 mm SIEVE								
0.600 mm SIEVE								
0.425 mm SIEVE	7	8	6	11	10	18	10	11
0.300 mm SIEVE	4	5	3	8	7	12	8	8
0.150 mm SIEVE								
0.075 mm SIEVE	2	2	1	4	2	6	4	4
LIQUID LIMIT	NV	NV	NV	NV	NV	NV	NV	NV
PLASTIC INDEX	NP	NP	NP	NP	NP	NP	NP	NP
SAND EQUIVALENT	70	23	44	34	77	29	60	24
L.A.WEAR	26	37		29	25			
DEPTH IN METERS	2.0-4.6	1.5-4.3	1.5-3.7	1.6-4.5	1.7-4.1	1.2-2.3	2.4-3.4	1.7-4.1
APPROX.MAX.SIZE IN mm	300	300	300	350	150	225	175	100
SP.GR.(AVG.OF TESTS)	2.60	2.60		2.60	2.57			
ABSORPTION	1.2	1.6		1.4	1.2			
LAB.NO.	198833	198798	198796	198635	207365	207327	207326	3-6781

Minor sheet text: Use tx=1.5 mm or 2 mm, wt=1, ft=2. Size tx=1 mm is acceptable for small space.

This cross section shall be taken through the area to be worked.

X-SECTION A-A'



GENERAL NOTES

1. TEST HOLE LOGS OF DEPTHS AND TYPES OF MATERIAL ENCOUNTERED AND LABORATORY TEST RESULTS WERE OBTAINED FOR DEPARTMENTAL USE IN DESIGN. VARIATIONS ARE TO BE EXPECTED FROM INDIVIDUAL TEST HOLE DATA. SEE THE MATERIALS MANUAL AND THE SPECIAL PROVISIONS FOR GENERAL REQUIREMENTS APPLICABLE TO THIS SOURCE.

FINAL RECLAMATION PLAN

1. UPON COMPLETION OF MATERIAL REMOVAL FROM THIS SOURCE, ALL PIT SLOPES SHALL BE 2:1 OR FLATTER.
2. THE PIT FLOOR AND SLOPES SHALL BE LEFT REASONABLY SMOOTH AND SLOPED TOWARD THE SOUTH FOR DRAINAGE.
3. A 6.1m OFFSET SHALL BE RETAINED TO MAINTAIN WASTE DITCH.
4. NO OFFSET IS REQUIRED ALONG SOUTHERN BOUNDARY.
5. A 6.1m OFFSET SHALL BE RETAINED ALONG REMAINING BOUNDARIES.
6. ALL REMAINING REJECTS AND STOCKPILED OVERBURDEN SHALL BE REDISTRIBUTED OVER ALL DISTURBED AREAS IN A REASONABLY UNIFORM MANNER AND SEEDED IN ACCORDANCE WITH SECTION 621-SEEDING, AS FOLLOWS:

GRASSES:	BULK SEED RATE (kg/ha)
"SODAR" STREAMBANK W.G.	7 kg
"SIBERIAN W.G.	7 kg
EPHRAIM LEGUME W.G.	7 kg
LADAK ALFALFA	1 kg
TOTAL	22 kg

7. 22 kg (N) NITROGEN AND 17 kg (P) PHOSPHOROUS FERTILIZER SHALL BE APPLIED PER HECTARE.
8. STRAW OR GRASS-HAY MULCH SHALL BE APPLIED AT 4.5 t/ha.

This section shall be compiled using the 621 insert and information from Chapter 5 Seeding Design

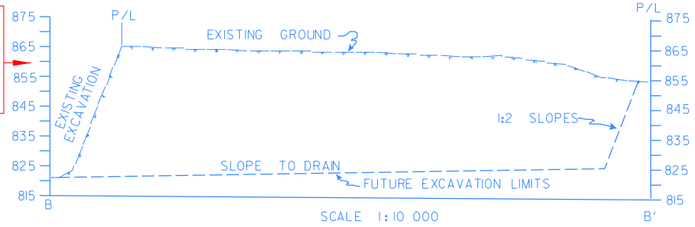
OPERATION OF SOURCE

1. OPERATIONS ON THIS PROJECT SHALL COMPLY WITH ITEMS 1 & 2 OF THE FINAL RECLAMATION PLAN. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS.
2. ALL SURVEY MARKERS, CORNER PINS, POSTS, AND FENCES WILL BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE DISTRICT MATERIALS ENGINEER.
3. EXISTING REFUSE IN PIT AREA SHALL BE REMOVED AND WASTED AT A CONTRACTOR FURNISHED SITE PRIOR TO CRUSHING OPERATIONS.
4. EXCAVATION SHALL PROCEED FROM SOUTH TO NORTH FOR THE FULL WIDTH AND DEPTH SHOWN IN PLAN VIEW AND X-SECTION A-A'.
5. THE TOP 0.3 m OF OVERBURDEN SHALL BE CONSIDERED TOPSOIL AND SHALL BE STRIPPED AND STOCKPILED SEPARATELY FROM OVERBURDEN.
6. MATERIAL MAY HAVE TO BE REMOVED FROM BELOW WATER.

This statement shall appear on the source plat and in the Special Provisions when a water table is present.

This cross section shall be taken through a section of the source that will best represent what is to be accomplished under Final Reclamation.

FINAL RECLAMATION PLAN X-SECTION B-B'



LOCATION : APPROXIMATELY 1.2 KILOMETERS WEST OF MP 162.4 ON S.H. 55
LEGAL DESCRIPTION : N.E.¼ S.E.¼ & S.E.¼ S.W.¼, SEC. 10, T.4N., R.1E., B.M.

U.S.GOV'T. WITHDRAWAL NO. _____
B.L.M.FREE USE PERMIT NO. _____
RECLAMATION PLAN APPROVED DATE 3/26/79
ARCHAEOLOGICAL CLEARANCE DATE 12/4/64
GEOLOGICAL REPORT DATE _____

DATE PURCHASED 4/20/65;6/23/66 RECORDED 6/7/65;8/22/66
INSTRUMENT NO. 613043 ; 646696
LESSOR _____ DATE _____
LEASE PERMIT NO. _____ EXPIRES _____
AREA 3.008 ha

Engineer's Stamp: Required on this sheet. Sign prior to CA submittal.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED G. Buster
DESIGN CHECKED R. James
DETAILED M. Broe
DRAWING CHECKED G. Buster

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME 1800sour.dgn
DRAWING DATE: January, 1979

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 3

PROJECT NO. STM-3271 (561)

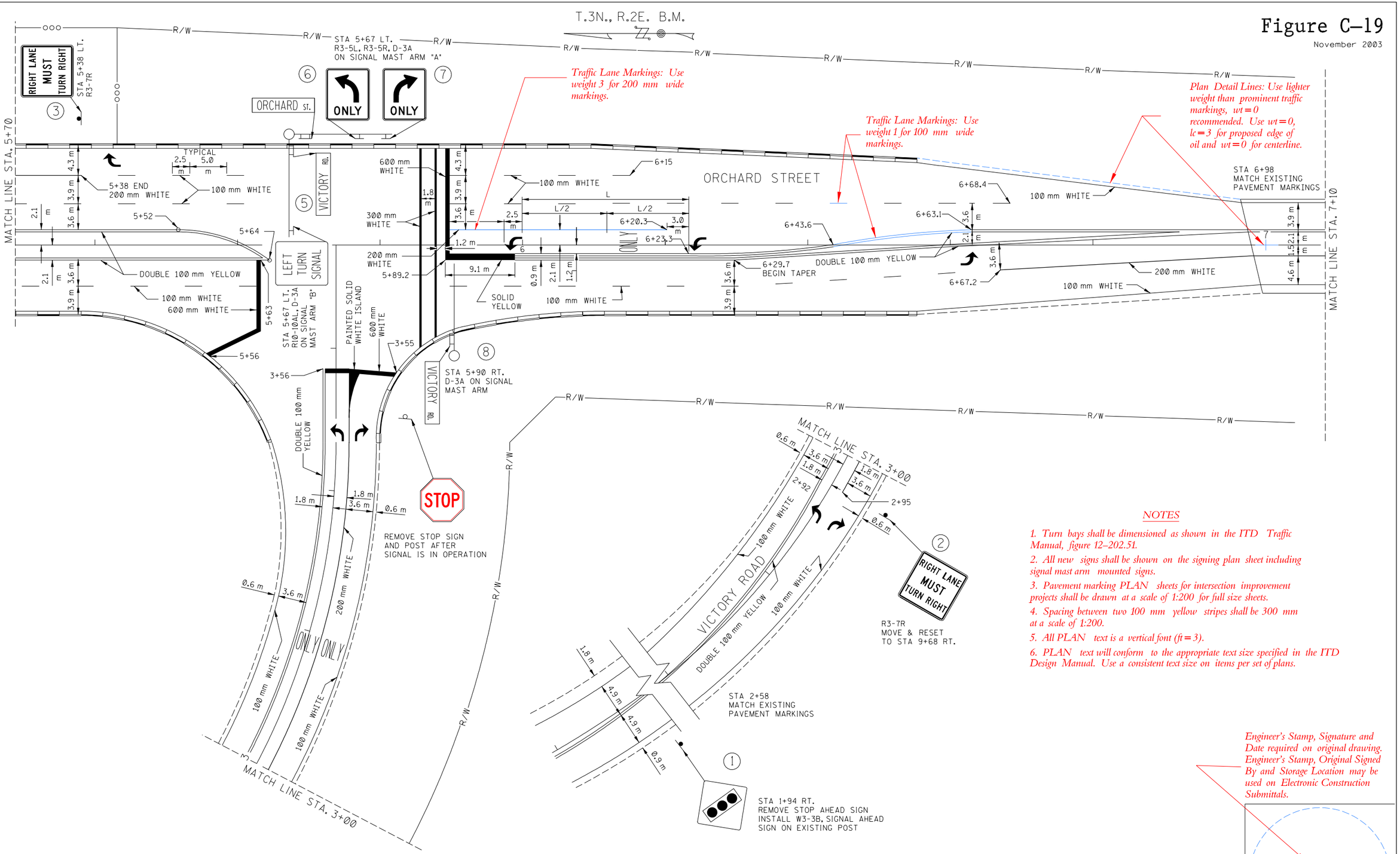
SOURCE PLAT
SOURCE NO. Ad-78-s

metric
COUNTY Ada
KEY NUMBER 1800
SHEET 17 OF 17

CADD DWG. C_181103.dgn

Figure C–19

November 2003



NOTES

1. Turn bays shall be dimensioned as shown in the ITD Traffic Manual, figure 12–202.51.
2. All new signs shall be shown on the signing plan sheet including signal mast arm mounted signs.
3. Pavement marking PLAN sheets for intersection improvement projects shall be drawn at a scale of 1:200 for full size sheets.
4. Spacing between two 100 mm yellow stripes shall be 300 mm at a scale of 1:200.
5. All PLAN text is a vertical font (ft=3).
6. PLAN text will conform to the appropriate text size specified in the ITD Design Manual. Use a consistent text size on items per set of plans.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	J. Hatmaker
DESIGN CHECKED	B. Longstroth
DETAILED	Nate Hyde
DRAWING CHECKED	Donny Tyler

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME: 3121spm1.dgn

DRAWING DATE: JUNE, 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 3

PROJECT NO.: IRG-842(8)51

SIGNING AND PAVEMENT MARKING PLAN

ORCHARD STREET & VICTORY ROAD INTERSECTION

metric

COUNTY: Ada

KEY NUMBER: 3121

SHEET 10 OF 25

CADD DWG. C_191103.dgn

Figure C–20

November 2003

SIGN ASSEMBLY NO.	STATION LT. OR RT.	RAMP NO.	FOUNDATION TYPE	POST TYPE	NO. OF POSTS	POST m SPACING	APPROX. m LENGTH OF 1st POST	APPROX. m LENGTH OF 2nd POST	POST LTH. m ABOVE FIN. SHLDR.	C	E	SIGN TYPE	SIGN DETAIL NUMBERS	SIGN SIZE W x H mm x mm	APPROX. AREA OF SIGN m^2	SIGN BACKGROUND COLOR	ARE BRACE ANGLES REQUIRED ON WOOD POST?	BRACKET NO.	REMARKS
1	7+00 LT.			D-3	1		5.64		3.35	3.05	2.13	B	R2-1A	914 X 1219	1.11	WHITE	YES		
2	7+00 RT.			D-2	1		5.49		3.50	3.05	2.13	B B B	M2-1 M1-7 M6-4	533 X 381 610 X 610 533 X 381	0.20 0.37 0.20	WHITE BLACK WHITE	YES		*Tx = 2 mm, Wt = 1, Font = 2(Vertical)*
3	10+47 RT.			D-3			5.64		3.35	3.05	2.13	B	R2-1A	914 X 1219	——	WHITE	YES		MOVE & RESET SIGN USING NEW POST
4	12+00 LT.			D-2	2	2.44	5.61	6.00	3.50	4.57	2.13	E E E		2438 X 457 2438 X 457 2438 X 457	1.11 1.11 1.11	GREEN GREEN GREEN	YES YES YES		
5	12+32.5 RT.			D-4	1		6.40		3.81	4.57	2.13	B B	I-60 I-60	1219 X 1219 1219 X 457	—— ——	WHITE WHITE	YES YES		MOVE & RESET SIGNS USING NEW POST
6	12+65 RT.		E-1	E-1	1		3.66		2.44	3.05	2.13	B	R1-1	762 X 762	0.58	RED			
7	12+65 RT.		E-2	E-2	1		3.66		3.96	3.96	2.13	B	W2-1	762 X 762	0.58	YELLOW			
8	15+49 LT.	C-D	A	B-2	1		3.30		2.89	2.99	2.13	B B B B	R1-1B R5-1A R6-1L R6-1R	1219 X 1219 914 X 914 914 X 305 914 X 305	1.49 0.84 0.28 0.28	RED WHITE BLACK BLACK			RAMP TERMINAL ASSEMBLY "A" SEE STANDARD DRAWINGS I-9-A-1(m) & I-9-A-2(m)
9	15+50 RT	C-D	A	B-2	1		3.60		3.19	3.05	2.13	B B B B	R1-1B R5-1A R6-1L R6-1R	1219 X 1219 914 X 914 914 X 305 914 X 305	1.49 0.84 0.28 0.28	RED WHITE BLACK BLACK			RAMP TERMINAL ASSEMBLY "A" SEE STANDARD DRAWINGS I-9-A-1(m) & I-9-A-2(m)
10	15+81 LT.	C-D	A	B-1	1		2.82		2.36	1.98	1.83	B	R5-9A	914 X 610	0.568	RED			SEE STANDARD DRAWINGS I-9-A-1(m)
12	15+82 RT.	C-D	A	B-1	1		2.82		2.36	1.98	1.83	B	R5-9A	914 X 610	0.568	RED			SEE STANDARD DRAWINGS I-9-A-1(m)
13	13+25 LT.		A	A-1	2	1.52	3.96	4.11	3.66	6.46	2.21	C	E-7	2438 X 1524	3.72	GREEN			SEE E-7 SIGN DETAIL
14	24+02 LT.		B	A-3	2	2.20	6.09	6.25	5.79	7.19	2.21	C	E4-1	3658 X 3658	13.38	GREEN			SEE E4-1 SIGN DETAIL
15	36+09 LT.		C	A-8	2	2.40	6.40	6.55	6.10	7.18	2.21	C	E1-1	3962 X 4572	18.11	GREEN			SEE E1-1 SIGN DETAIL

POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION

COLUMN C, DISTANCE FROM SHOULDER TO CENTER LINE OF FIRST POST

COLUMN E, BOTTOM OF MAJOR SIGN ABOVE FINISHED SHOULDER

NOTE: Text height shown is the correct height for 279 mm x 432 mm sheets on CADD.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED T. Harding
DESIGN CHECKED N. Kerrigan
DETAILED P. Bucanan
DRAWING CHECKED B. Farber

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME 7605tr01.dgn
DRAWING DATE: NOVEMBER, 1997

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT NUMBER

PROJECT NO.
PROJECT NUMBER

SIGNING ERECTION SPECIFICATIONS
EXAMPLE

metric
COUNTY Kootenai
KEY NUMBER 7605
SHEET 37 OF 53

CADD DWG. C_201103.dgn

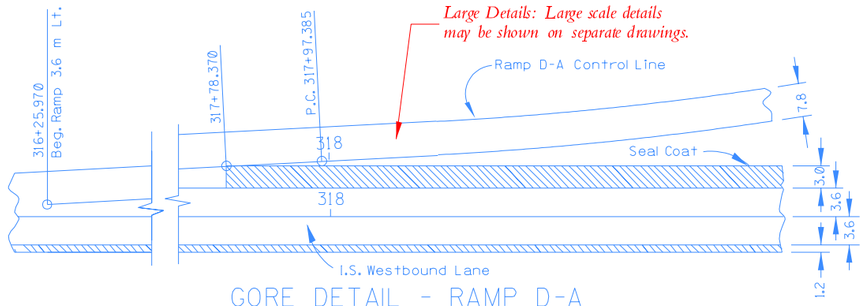
Figure C–21

November 2003

NOTES

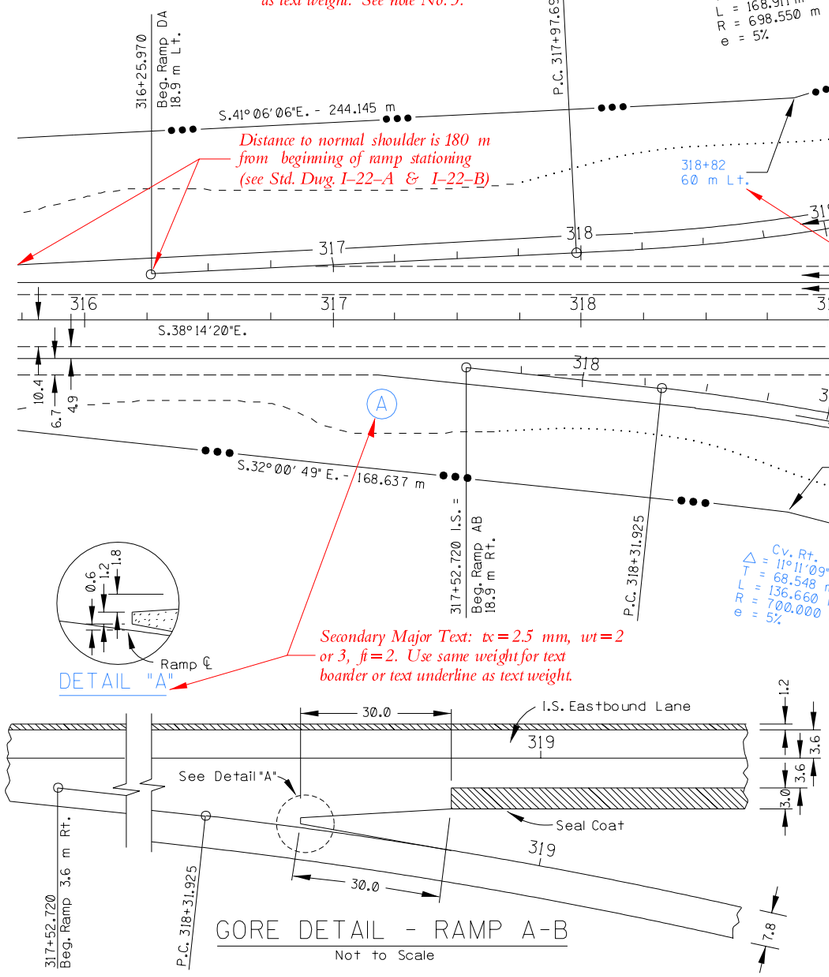
1. *All pay items for interchange area are to be shown on standard roadway plan sheets.*
2. *Interchange detail plans are made to supplement the normal roadway and right of way plans which may be too congested to show all necessary information for construction staking and recording of all pay items.*
3. *All PLAN text is a vertical font (ft=2).*
4. *PLAN minor text is, either tx=1.5 mm or 2 mm, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.*
5. *The PLAN (interchange – horizontal alignment) sheet title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.*
6. *The CADD text sizes given in red highlight are for a 279 mm x 432 mm sheet.*

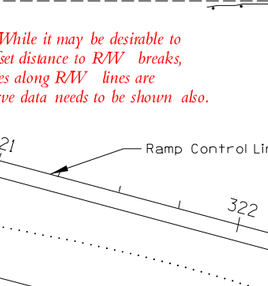
Large Details: Large scale details may be shown on separate drawings.



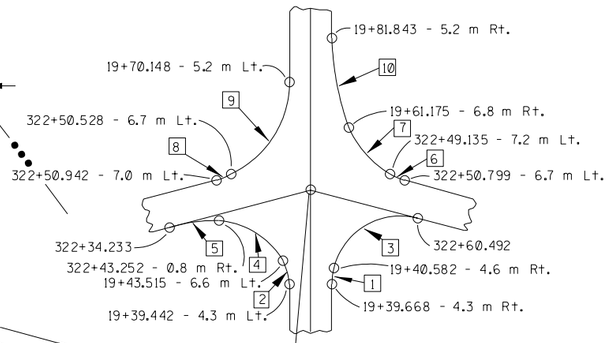
GORE DETAIL - RAMP D-A
Not to Scale

Major Plan Text: Use tx=3 mm, wt=3, ft=2. Use same weight for underline as text weight. See note No. 3.





D INTERSECTION DETAIL
Not to Scale

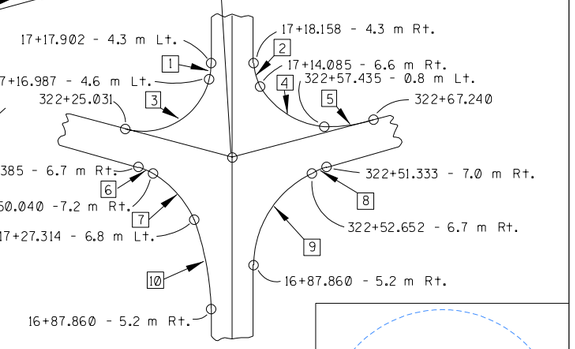


GORE DETAIL - RAMP A-B
Not to Scale

RAMP TERMINAL CURVE DATA

CURVE	LENGTH	RADIUS	Δ ANGLE	L.C. BEARING	L. CHORD	TANGENT
1	0.981	1.5	37°28'17"			
2	4.910	4.7	59°51'21"			
3	16.310	14.0	66°44'58"			
4	9.705	15.5	35°52'28"			
5	9.857	58.0	9°44'14"			
6	1.762	3.0	33°39'06"			
7	6.578	15.0	25°07'34"			
8	1.375	3.0	26°15'38"			
9	16.996	20.0	48°41'24"			
10	20.982	70.0	17°10'26"			

B INTERSECTION DETAIL
Not to Scale



LAKE SHORE I.C.
Not to Scale

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	D. Lander
DESIGN CHECKED	T. Smith
DETAILED	E. Marshall
DRAWING CHECKED	R. Jones

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME	1321rd01.dgn
DRAWING DATE:	JULY, 1992

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT 1

PROJECT NO.	I-90-1(002)50
INTERCHANGE DETAIL	LAKE SHORE I.C.

metric

COUNTY	Kootenai
KEY NUMBER	1321
SHEET	9 OF 22

STAMP

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

CADD DWG. C_211103.dgn

Figure C–22

November 2003

RAMP D-A

Major Profile Text: tx=.06, wt=3, ft=2 (see note No. 2).

Begin Ramp D-A
18.9 m Lt.
I.S. Sta. 316+25.970

Control Pt. 22 m Lt. 317+97.690
(Interstate Shoulder Line)

+0.830%

+3.103%

120 m V.C.

100 m V.C.

Finished Grade on Controline

2.0' S.S.G.

456 m³ Exc.

603 m³ Exc.

499 m³ Exc. to Ramp D-C

206 m³ Emb.

195 m³ Emb.

Ac. Rd. Shld.

+1.550%

Sta. 322+60.000 = Ac. Rd. Sta. 19+90.720

Secondary Major Text: Use tx=.05, wt=2 or 3, see note No. 3. Use same weight for circle as text weight.

Minor Profile Text: See note Nos. 3 and 4, tx=.03 size shown.

Minor Profile Text: See note Nos. 3 and 4, tx=.04 size shown.

RAMP A-B

Beg. Ramp A-B
18.9 m Rt.
I.S. Sta. 317+52.720

Control Pt. 22 m Rt. +31.925
(Interstate Shoulder Line)

+0.530%

+2.750%

90 m V.C.

2.0' S.S.G.

Fin. Gr. on Control Line

787 m³ Exc.

156 m³ Exc.

507 m³ Exc. to Ramp B-C

295 m³ Emb.

Ac. Rd. Shld.

Sta. 322+47.740 = Ac. Rd. Sta. 17+068.80

WEST BOUND LANE

R/W Monument
46 m Rt. 318+50

+0.790%

+1.200%

700 m V.C.

Invert @ ℄
1020.665

2.0' S.S.G.

388 m³ Exc.

989 m³ Borrow for Backfill from Borrow #2

489 m³ Emb.

635 m³ Emb.

46 m³ Emb.

Finished Grade @ ℄

Bench Marks: Show one or two bench elevations per sheet. B.M.'s for project should be prmanent. Preferably located outside of construction area. Temporary bench marks should be labled as T.B.M.'s

B.M.
1025.175

R/W Mon. 95 m Rt. Sta. 323+60

Match Line 323+50

Break Elevation: place elevation at match line or sheet break.

EAST BOUND LANE

+1.000%

+0.810%

+1.140%

700 m V.C.

Invert @ ℄
1021.245

2.0' S.S.G.

1724 m³ Borrow for Backfill from Borrow #2

450 m³ Emb.

692 m³ Emb.

206 m³ Emb.

118 m³ Emb.

Finished Grade @ ℄

Pipe Sizes & Inverts: Pipe sizes are not to scale and inverts may need to be noted on the plan.

B.M.
1018.587

Exc.	2390 m³
Emb.	4338 m³
Bor.	2713 m³
Dist.	2175.57 m

NOTES

1. For additional profile formatting information refer to Design Manual.
2. All PROFILE text is vertical (ft=2).
3. PROFILE minor text is, either tx=.03 or .04, wt=1, upper and lower case. Use the most appropriate text size according to the amount of detail needed. Use a consistent text size on items per set of plans.
4. The PROFILE title blocks at the sheet bottom shall be filled with the same format as the ROADWAY SUMMARY.

Engineer's Stamp, Signature and Date required on original drawing. Engineer's Stamp, Original Signed By and Storage Location may be used on Electronic Construction Submittals.

STAMP

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED	J. Nickle
DESIGN CHECKED	B. Roberts
DETAILED	K. Cost
DRAWING CHECKED	M. Snowy Jr.

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

CADD FILE NAME 1321prf31.dgn

DRAWING DATE: JULY, 1992

IDAHO TRANSPORTATION DEPARTMENT

DISTRICT 1

PROJECT NO.: I-90-1(002)50

PROFILE: LAKE SHORE I. C.

metric

COUNTY: Kootenai

KEY NUMBER: 1321

SHEET 10 OF 22

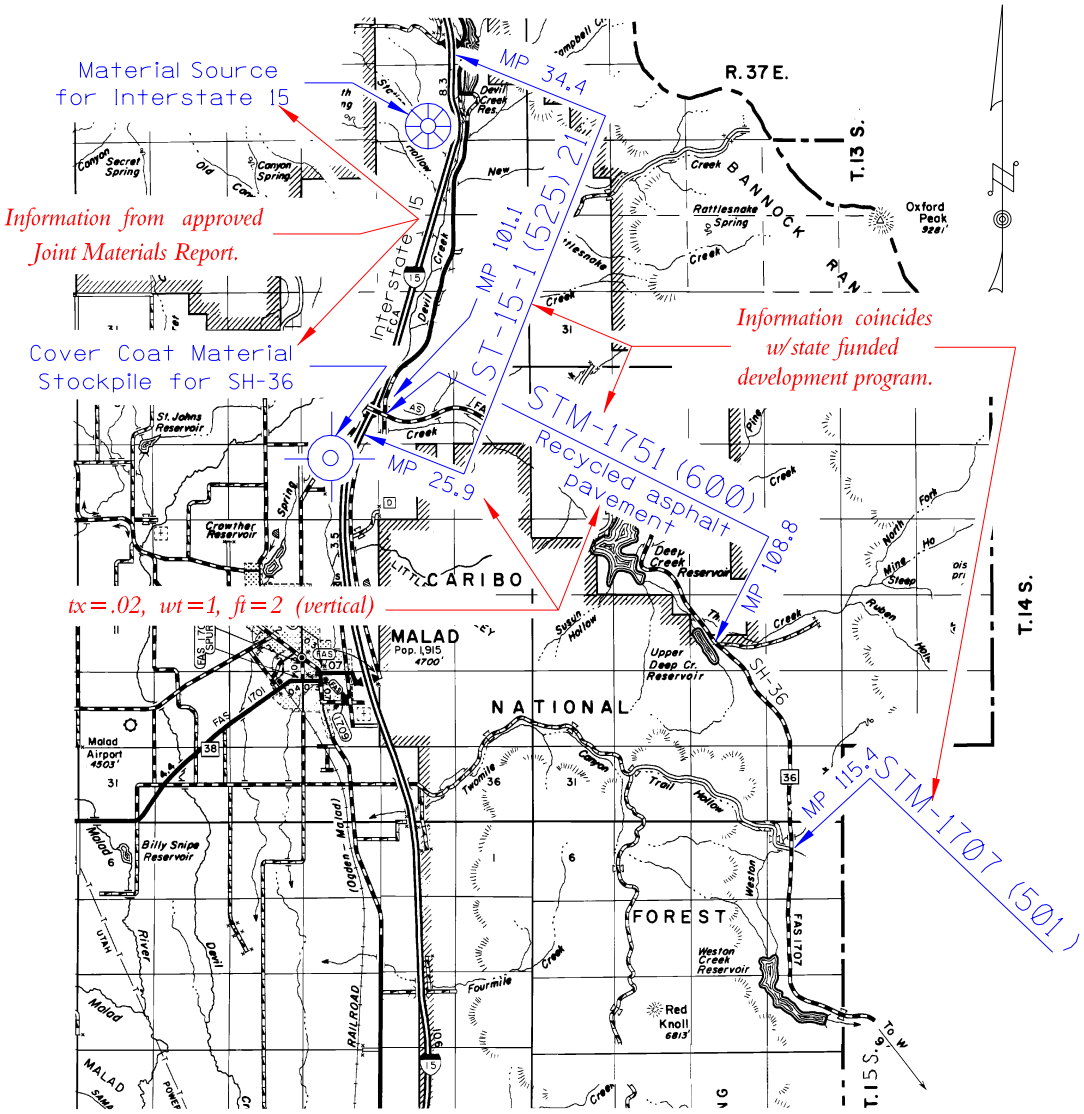
CADD DWG. C_221103.dgn

ITD-1767 11-03
Form use : Mtce Projects

metric

Figure C–23

November. 2003



ITD LOGO: tx=.05, wt=2, ft=7 (upper case vertical)

IDAHO TRANSPORTATION DEPARTMENT

Sketch Map Showing

PROJECT NO. ST-15-1 (525) 21

Oneida County

Scale: 1 : 100 000

Boise, Idaho

Sheet text: tx=.02, wt=1, ft=2 (upper and lower case vertical)

Approved: _____ 5/91
Assistant Chief Engineer (Dev.) Date

CADD DWG. C_231103.dgn

metric
Figure C–24
November 2003

Major Sheet Text: Use tx=.05, wt=3, ft=2 (upper case vertical). Use same weight for underline as text weight.

SUMMARY

ST-15-1(525) 21
INTERSTATE 15
km 25.9 to km 34.4

Minor Sheet Text: Use tx=.02, wt=1, ft=2 (upper and lower case vertical)

Secondary Major Text: Use tx=.04, wt=2 or 3, ft=2 (upper case vertical). Use same weight for underline as text weight.

CONCRETE PAVEMENT REHABILITATION

423-005A	Resealing Joints	10980 m
425-005A	Repairing Pavement Cracks	206 m
426-005A	Repairing Spalls	35 m^2
428-005A	Sealing Edge Joints	883 m
626-010A	Rent Const. Sign Class B	29 m^2
626-025A	Rent Const. Barricade Type III	8 Ea.
626-050A	Rent Drum Class B	100 Hr.
626-075A	Rent Advanced Warning Panel Type C	700 Hr.
626-100A	Rent Incidental Traffic Control Items	0.35 L.S.
626-105A	Traffic Control Maintenance	225 Mn. Hr.
630-005A	Flagging	600 Hr.
S911-05A	Resealing Cracks	478 m
Z629-05A	Mobilization	0.35 L.S.

Current Publications: Refer to the most recent edition of these two ITD publications.

NOTES

All work on this project shall be governed by the Idaho Standard Specifications for Highway Construction, 1999 Edition, the March 1999 Supplemental Specifications, the Special Provisions, and the Standard Special Provisions.

Striping will be done by State Forces.